MITSUBISHI ELECTRIC

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SPLIT-TYPE, HEAT PUMP AIR CONDITIONERS
SPLIT-TYPE, AIR CONDITIONERS

CE

**2004**

**No.OC301**
**REVISED EDITION-A**

# TECHNICAL & SERVICE MANUAL

## Series PKA Wall Mounted R407C/R410A

**Indoor unit [Model names]**

**PKA-RP2.5FAL**

**PKA-RP3FAL**

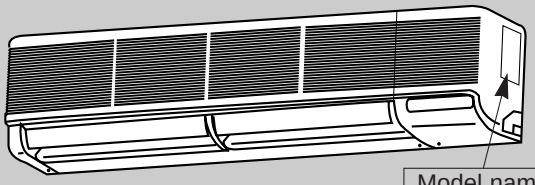
**PKA-RP4FAL**

**[Service Ref.]**

# PKA-RP2.5FAL
# PKA-RP3FAL
# PKA-RP4FAL

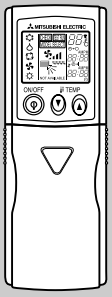
- PKA-RP2.5FAL is added in REVISED EDITION-A.
- This manual does not cover outdoor units. When servicing them, please refer to service manual OC261 REVISED EDITION-B, OC285, OC294 REVISED EDITION-A, OC298 and this manual in a set.

- Please void OC301.



**Indoor unit**

Model name indication



**Remote controller**

## CONTENTS

1. COMBINATION OF INDOOR AND OUTDOOR UNITS ····· 2
2. SAFETY PRECAUTION ····· 3
3. PART NAMES AND FUNCTIONS ····· 6
4. SPECIFICATIONS ····· 8
5. DATA ····· 1
6. OUTLINES AND DIMENSIONS ····· 33
7. WIRING DIAGRAM ····· 35
8. REFRIGERANT SYSTEM DIAGRAM ····· 36
9. TROUBLESHOOTING ····· 37
10. DISASSEMBLY PROCEDURE ····· 47
11. PARTS LIST ····· 50
12. OPTIONAL PARTS ····· Back Cover

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# 1 COMBINATION OF INDOOR AND OUTDOOR UNITS

**(R410A Inverter)**

| Indoor unit | Outdoor unit [OC294 REVISED EDITION-A] | | |
|---|---|---|---|
| | Heat pump type | | |
| | PUHZ-RP | | |
| | 2.5VHA | 3VHA | 4VHA<br>4VHA$_1$ |
| PKA-RP2.5FAL | ○ | — | — |
| PKA-RP3FAL | — | ○ | — |
| PKA-RP4FAL | — | — | ○ |

**(R407C Fixed speed)**

| | Indoor unit | Outdoor unit [OC285] | | | | Outdoor unit [OC298] | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Heat pump type | | | | Cooling only type | | | |
| | | PUH-P | | | | PU-P | | | |
| | | 2.5VGAA | 3VGAA | 3YGAA | 4YGAA | 2.5VGAA | 3VGAA | 3YGAA | 4YGAA |
| Heat pump without electric heater or Cooling only | PKA-RP2.5FAL | ○ | — | — | — | ○ | — | — | — |
| | PKA-RP3FAL | — | ○ | ○ | — | — | ○ | ○ | — |
| | PKA-RP4FAL | — | — | — | ○ | — | — | — | ○ |

**(R407C Fixed speed)**

| | Indoor unit | Outdoor unit [OC261 REVISED EDITION-B] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Heat pump type | | | | | | Cooling only type | | | | | |
| | | PUH-P | | | | | | PU-P | | | | | |
| | | 2.5 | | 3 | | 4 | | 2.5 | | 3 | | 4 | |
| | | VGAA.UK<br>VGAA$_1$.UK | YGAA.UK<br>YGAA$_1$.UK | VGAA.UK<br>VGAA$_1$.UK | YGAA.UK<br>YGAA$_1$.UK | VGAA.UK<br>VGAA$_1$.UK | YGAA.UK<br>YGAA$_1$.UK | VGAA.UK<br>VGAA$_1$.UK | YGAA.UK<br>YGAA$_1$.UK | VGAA.UK<br>VGAA$_1$.UK | YGAA.UK<br>YGAA$_1$.UK | VGAA.UK<br>VGAA$_1$.UK | YGAA.UK<br>YGAA$_1$.UK |
| Heat pump without electric heater or Cooling only | PKA-RP2.5FAL | ○ | ○ | — | — | — | — | ○ | ○ | — | — | — | — |
| | PKA-RP3FAL | — | — | ○ | ○ | — | — | — | — | ○ | ○ | — | — |
| | PKA-RP4FAL | — | — | — | — | ○ | ○ | — | — | — | — | ○ | ○ |

# 2 SAFETY PRECAUTION

## CAUTIONS RELATED TO NEW REFRIGERANT

**Cautions for units utilizing refrigerant R407C**

**Do not use the existing refrigerant piping.**

The old refrigerant and lubricant in the existing piping contains a large amount of chlorine which may cause the lubricant deterioration of the new unit.

**Use liquid refrigerant to seal the system.**

If gas refrigerant is used to seal the system, the composition of the refrigerant in the cylinder will change and performance may drop.

**Use “low residual oil piping”**

If there is a large amount of residual oil (hydraulic oil, etc.) inside the piping and joints, deterioration of the lubricant will result.

**Do not use a refrigerant other than R407C.**

If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the lubricant deterioration.

**Store the piping to be used during installation indoors with keep both ends sealed until just before brazing.**
**(Store elbows and other joints in a plastic bag.)**

If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.

**Use a vacuum pump with a reverse flow check valve.**

The vacuum pump oil may flow back into the refrigerant cycle and cause the lubricant deterioration.

**Use ESTR , ETHER or HAB as the lubricant to coat flares and flange connection parts.**

If large amount of mineral oil enter, that can cause deterioration of refrigerant oil etc.

**Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.**

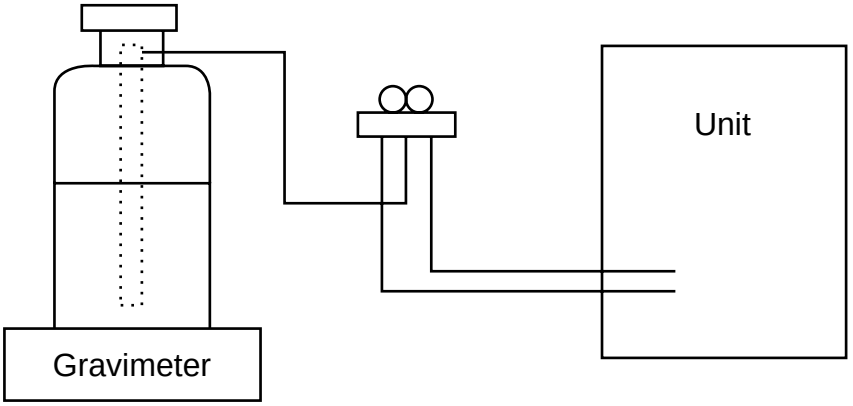
### [1] Cautions for service

·After recovering the all refrigerant in the unit, proceed to working.
·Do not release refrigerant in the air.
·After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

### [2] Refrigerant recharging

(1) Refrigerant recharging process

①Direct charging from the cylinder.
·R407C cylinder are available on the market has a syphon pipe.
·Leave the syphon pipe cylinder standing and recharge it.
(By liquid refrigerant)




(2) Recharge in refrigerant leakage case

·After recovering the all refrigerant in the unit, proceed to working.
·Do not release the refrigerant in the air.
·After completing the repair service, recharge the cycle with the specified amount of liquid refrigerant.

## [3] Service tools

Use the below service tools as exclusive tools for R407C refrigerant.

| No. | Tool name | Specifications |
|---|---|---|
| ① | Gauge manifold | ·Only for R407C. |
| | | ·Use the existing fitting SPECIFICATIONS. (UNF7/16) |
| | | ·Use high-tension side pressure of 3.43MPa·G or over. |
| ② | Charge hose | ·Only for R407C. |
| | | ·Use pressure performance of 5.10MPa·G or over. |
| ③ | Electronic scale | |
| ④ | Gas leak detector | ·Use the detector for R134a or R407C. |
| ⑤ | Adapter for reverse flow check. | ·Attach on vacuum pump. |
| ⑥ | Refrigerant charge base. | |
| ⑦ | Refrigerant cylinder. | ·For R407C ·Top of cylinder (Brown)<br>·Cylinder with syphon |
| ⑧ | Refrigerant recovery equipment. | |

## CAUTIONS RELATED TO NEW REFRIGERANT

**Cautions for units utilizing refrigerant R410A**

**Use new refrigerant pipes.**

In case of using the existing pipes for R22, be careful with the followings.
· For RP4 be sure to perform replacement operation before test run.
· Change flare nut to the one provided with this product. Use a newly flared pipe.
· Avoid using thin pipes.

**Make sure that the inside and outside of refrigerant piping is clean and it has no contamination such as sulfur hazardous for use, oxides, dirt, shaving particles, etc.**
**In addition, use pipes with specified thickness.**

Contamination inside refrigerant piping can cause deterioration of refrigerant oil etc.

**Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing. (Leave elbow joints, etc. in their packaging.)**

If dirt, dust or moisture enter into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

**Use ester oil, ether oil or alkylbenzene oil (small amount) as the refrigerant oil applied to flares and flange connections.**

If large amount of mineral oil enter, that can cause deterioration of refrigerant oil etc.

**Charge refrigerant from liquid phase of gas cylinder.**

If the refrigerant is charged from gas phase, composition change may occur in refrigerant and the efficiency will be lowered.

**Do not use refrigerant other than R410A.**

If other refrigerant (R22 etc.) is used, chlorine in refrigerant can cause deterioration of refrigerant oil etc.

**Use a vacuum pump with a reverse flow check valve.**

Vacuum pump oil may flow back into refrigerant cycle and that can cause deterioration of refrigerant oil etc.

**Use the following tools specifically designed for use with R410A refrigerant.**

The following tools are necessary to use R410A refrigerant.

| Tools for R410A | |
|---|---|
| Gauge manifold | Flare tool |
| Charge hose | Size adjustment gauge |
| Gas leak detector | Vacuum pump adaptor |
| Torque wrench | Electronic refrigerant charging scale |

**Keep the tools with care.**

If dirt, dust or moisture enter into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

**Do not use a charging cylinder.**

If a charging cylinder is used, the composition of refrigerant will change and the efficiency will be lowered.

**Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.**

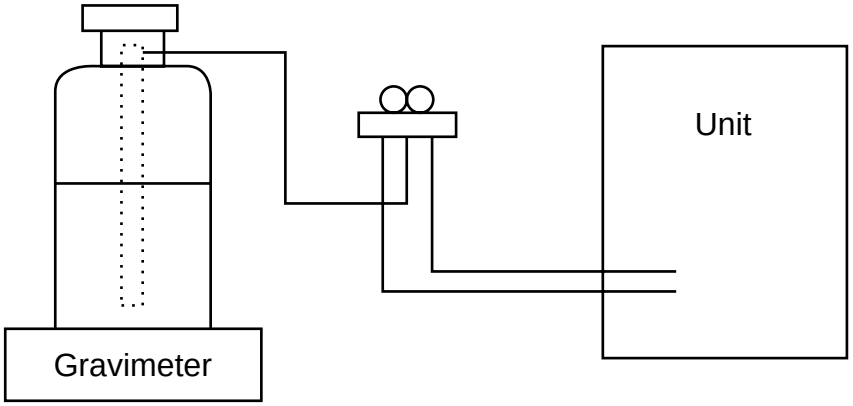
## [1] Cautions for service

**(1) Perform service after collecting the refrigerant left in unit completely.**
**(2) Do not release refrigerant in the air.**
**(3) After completing service, charge the cycle with specified amount of refrigerant.**
**(4) When performing service, install a filter drier simultaneously.**
**Be sure to use a filter drier for new refrigerant.**

## [2] Additional refrigerant charge

**When charging directly from cylinder**

· Check that cylinder for R410A on the market is syphon type.
· Charging should be performed with the cylinder of syphon stood vertically. (Refrigerant is charged from liquid phase.)



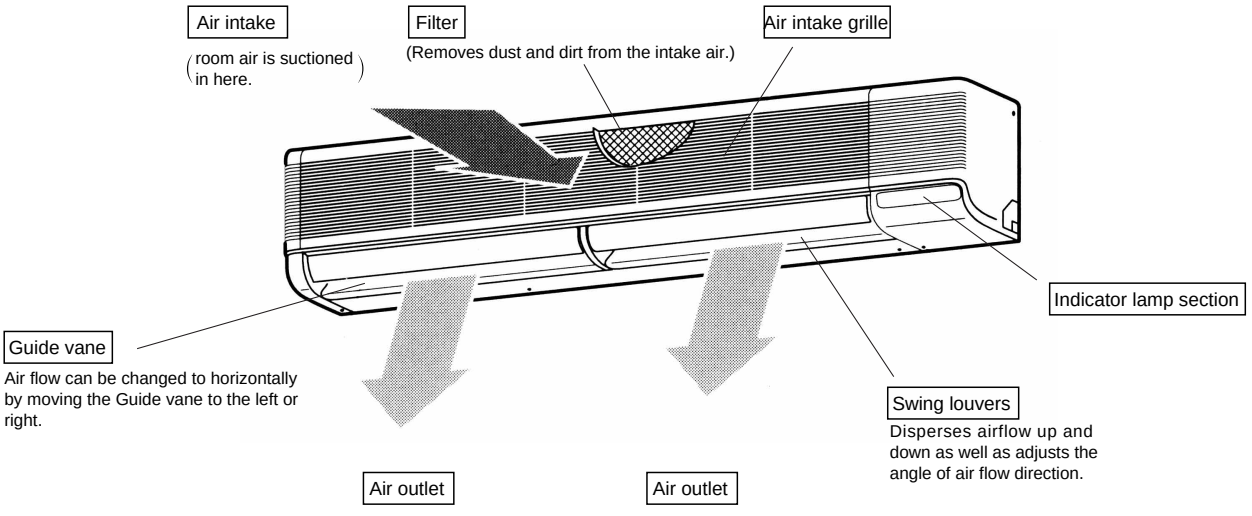

## [3] Service tools

**Use the below service tools as exclusive tools for R410A refrigerant.**

| No. | | Specifications |
|---|---|---|
| ① | Gauge manifold | ·Only for R410A |
| | | ·Use the existing fitting specifications. (UNF1/2) |
| | | ·Use high-tension side pressure of 5.3MPa·G or over. |
| ② | Charge hose | ·Only for R410A |
| | | ·Use pressure performance of 5.09MPa·G or over. |
| ③ | Electronic scale | —— |
| ④ | Gas leak detector | ·Use the detector for R134a, R407C or R410A. |
| ⑤ | Adaptor for reverse flow check | ·Attach on vacuum pump. |
| ⑥ | Refrigerant charge base | —— |
| ⑦ | Refrigerant cylinder | ·Only for R410A Top of cylinder (Pink)<br>Cylinder with syphon |
| ⑧ | Refrigerant recovery equipment | —— |

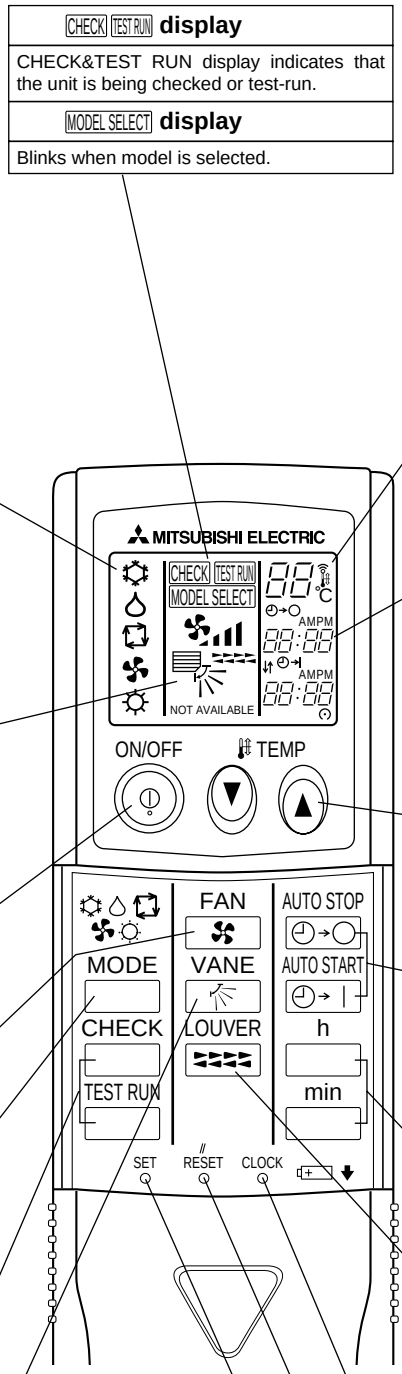
# 3 PART NAMES AND FUNCTIONS

● **Indoor Unit**


Air intake
(room air is suctioned in here.)
Filter
(Removes dust and dirt from the intake air.)
Air intake grille
Indicator lamp section
Guide vane
Air flow can be changed to horizontally by moving the Guide vane to the left or right.
Swing louvers
Disperses airflow up and down as well as adjusts the angle of air flow direction.
Air outlet
Air outlet

## ●Wireless remote controller

● When cover is open.




**CHECK TEST RUN display**

CHECK&TEST RUN display indicates that the unit is being checked or test-run.

**MODEL SELECT display**

Blinks when model is selected.

**display**

Lights up while transmission to the indoor unit is mode using switches.

**display**

SET TEMP. display indicates desired temperature set.

**display**

OPERATION MODE display
Operation mode display indicates which operation mode is in effect.

**CLOCK display**

Displays the current time.

**TIMER display**

Displays when in timer operation or when setting timer.

**" ↓ " " ↑ " display**

Displays the order of timer operation.

**" ⏲→| " " ⏲→○ " display**

Displays whether timer is on or off.

**display**

The vertical direction of air flow is indicated.

**display**

FAN SPEED display indicates which fan speed has been selected.

**button**

SET TEMPERATURE button sets any desired room temperature.

**ON/OFF button**

The unit is turned ON and OFF alternately each time the button is pressed.

**TIMER CONTROL buttons**

AUTO STOP (OFF timer): when this switch is set, the air conditioner will be automatically stopped at the preset time.
AUTO START (ON timer): when this switch is set, the air conditioner will be automatically started at the preset time.

**FAN SPEED SELECT button**

Used to change the fan speed.

**h and min buttons**

Buttons used to set the "hour and minute" of the current time and timer settings.

**MODE SELECT button**

Used to switch the operation mode between cooling, drying, blowing, heating and auto mode.

※ In case the outdoor unit is cool only type, the heating mode is not available.

**LOUVER button**

This switch the horizontal fan motion ON and OFF.

(Not available for this model.)

**CHECK-TEST RUN button**

Only press this button to perform an inspection check or test operation.
Do not use it for normal operation.

**CLOCK button**

**RESET button**

**SET button**

**VANE CONTROL button**

Used to change the air flow direction.

# 4 SPECIFICATIONS

## 4-1. Heat pump type (1)

| Item \ Service Ref. | | | | PKA-RP2.5FAL | |
|---|---|---|---|---|---|
| Function | | | | Cooling | Heating |
| Capacity | | | Btu/h | 20,500 | 23,900 |
| | | | W | 6,000(2,700~6,700) | 7,000(2,800~8,200) |
| Total input | | | kW | 1.55 | 2.01 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP2.5FAL** | |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V | |
| | | Input | kW | 0.09 | 0.09 |
| | | Running current | A | 0.43 | 0.43 |
| | | Starting current | A | 0.80 | 0.80 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 | |
| | Heat exchanger | | | Plate fin coil | |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 | |
| | | Fan motor output | kW | 0.040 | |
| | | Airflow(Low-High) | m³/min(CFM) | 15-20(530-705) | |
| | | External static pressure | Pa(mmAq) | 0(direct blow) | |
| | Operation control & Thermostat | | | Wireless remote controller & built-in | |
| | Noise level(Low-High) | | dB | 39-45 | |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) | |
| | Dimensions | W | mm(in.) | 1,400(55-1/8) | |
| | | D | mm(in.) | 235(9-1/4) | |
| | | H | mm(in.) | 340(13-3/8) | |
| | Weight | | kg(lbs) | 24(53) | |
| OUTDOOR UNIT | **Service Ref.** | | | **PUHZ-RP2.5VHA** | |

| Item \ Service Ref. | | | | PKA-RP3FAL | |
|---|---|---|---|---|---|
| Function | | | | Cooling | Heating |
| Capacity | | | Btu/h | 24,200 | 27,300 |
| | | | W | 7,100(3,300~8,100) | 8,000(3,500~10,200) |
| Total input | | | kW | 1.98 | 2.40 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP3FAL** | |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V | |
| | | Input | kW | 0.09 | 0.09 |
| | | Running current | A | 0.43 | 0.43 |
| | | Starting current | A | 0.80 | 0.80 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 | |
| | Heat exchanger | | | Plate fin coil | |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 | |
| | | Fan motor output | kW | 0.040 | |
| | | Airflow(Low-High) | m³/min(CFM) | 15-20(530-706) | |
| | | External static pressure | Pa(mmAq) | 0(direct blow) | |
| | Operation control & Thermostat | | | Wireless remote controller & built-in | |
| | Noise level(Low-High) | | dB | 39-45 | |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) | |
| | Dimensions | W | mm(in.) | 1,400(55-1/8) | |
| | | D | mm(in.) | 235(9-1/4) | |
| | | H | mm(in.) | 340(13-3/8) | |
| | Weight | | kg(lbs) | 24(53) | |
| OUTDOOR UNIT | **Service Ref.** | | | **PUHZ-RP3VHA** | |

Notes1. Rating Conditions (ISO T1)
Cooling : Indoor : D.B. 27˚C(80˚F), W.B. 19˚C (66˚F) Outdoor : D.B. 35˚C(95˚F), W.B. 24˚C (75˚F)
Heating : Indoor : D.B. 20˚C(68˚F) Outdoor : D.B. 7˚C(45˚F), W.B. 6˚C (43˚F)
Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

| | | Indoor | Outdoor |
|---|---|---|---|
| Cooling | Upper limit | D.B. 35˚C, W.B. 22.5˚C | D.B. 46˚C |
| | Lower limit | D.B. 19˚C, W.B. 15˚C | D.B. -5˚C |
| Heating | Upper limit | D.B. 28˚C | D.B. 21˚C, W.B. 15˚C |
| | Lower limit | D.B. 17˚C | D.B. -11˚C, W.B. -12˚C |

3. Guaranteed voltage
198~264V, 50Hz

4. Above data based on indicated voltage
Indoor Unit Single phase 230V 50Hz
Outdoor Unit Single phase 230V 50Hz

5. Refer to the service manual of outdoor unit for the outdoor unit's specifications.

| Item | | | | Service Ref. | PKA-RP4FAL | |
|---|---|---|---|---|---|---|
| Function | | | | | Cooling | Heating |
| Capacity | | | | Btu/h | 34,100 | 38,200 |
| | | | PUHZ-RP4VAH | W | 10,000(5,000~11,400) | 11,200(5,600~14,000) |
| | | | PUHZ-RP4VAH$_1$ | W | 10,000(4,900~11,400) | 11,200(4,500~14,000) |
| Total input | | | | kW | 2.93 | 3.25 |
| INDOOR UNIT | **Service Ref.** | | | | **PKA-RP4FAL** | |
| | Power supply(phase, cycle, voltage) | | | | Single phase, 50Hz, 220-230-240V | |
| | | Input | | kW | 0.11 | 0.11 |
| | | Running current | | A | 0.52 | 0.52 |
| | | Starting current | | A | 0.90 | 0.90 |
| | External finish | | | | Munsell 3.4Y 7.7/0.8 | |
| | Heat exchanger | | | | Plate fin coil | |
| | Fan | Fan(drive) x No. | | | Line flow (direct) x 2 | |
| | | Fan motor output | | kW | 0.070 | |
| | | Airflow(Low-High) | | m³/min(CFM) | 22-28(780-990) | |
| | | External static pressure | | Pa(mmAq) | 0(direct blow) | |
| | Operation control & Thermostat | | | | Wireless remote controller & built-in | |
| | Noise level(Low-High) | | | dB | 41-46 | |
| | Unit drain pipe O.D. | | | mm(in.) | 26(1) | |
| | Dimensions | | W | mm(in.) | 1,680(66-1/8) | |
| | | | D | mm(in.) | 235(9-1/4) | |
| | | | H | mm(in.) | 340(13-3/8) | |
| | Weight | | | kg(lbs) | 28(62) | |
| OUTDOOR UNIT | **Service Ref.** | | | | **PUHZ-RP4VHA**<br>**PUHZ-RP4VHA$_1$** | |

Notes1. Rating Conditions (ISO T1)
Cooling : Indoor : D.B. 27˚C(80˚F), W.B. 19˚C (66˚F) Outdoor : D.B. 35˚C(95˚F), W.B. 24˚C (75˚F)
Heating : Indoor : D.B. 20˚C(68˚F) Outdoor : D.B. 7˚C(45˚F), W.B. 6˚C (43˚F)
Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

| | | Indoor | Outdoor |
|---|---|---|---|
| Cooling | Upper limit | D.B. 35˚C, W.B. 22.5˚C | D.B. 46˚C |
| | Lower limit | D.B. 19˚C, W.B. 15˚C | D.B. -5˚C |
| Heating | Upper limit | D.B. 28˚C | D.B. 21˚C, W.B. 15˚C |
| | Lower limit | D.B. 17˚C | D.B. -11˚C, W.B. -12˚C |

3. Guaranteed voltage
198~264V, 50Hz

4. Above data based on indicated voltage
Indoor Unit Single phase 230V 50Hz
Outdoor Unit Single phase 230V 50Hz

5. Refer to the service manual of outdoor unit for the outdoor unit's specifications.

## 4-2. Heat pump type (2)

| Item \ Service Ref. | | | | PKA-RP2.5FAL | |
|---|---|---|---|---|---|
| Function | | | | Cooling | Heating |
| Capacity | | | Btu/h | 22,000 | 25,100 |
| | | | W | 6,450 | 7,350 |
| Total input | | | kW | 2.65 | 2.63 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP2.5FAL** | |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V | |
| | | Input | kW | 0.09 | 0.09 |
| | | Running current | A | 0.43 | 0.43 |
| | | Starting current | A | 0.80 | 0.80 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 | |
| | Heat exchanger | | | Plate fin coil | |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 | |
| | | Fan motor output | kW | 0.040 | |
| | | Airflow(Low-High) | m³/min(CFM) | 15-20(530-706) | |
| | | External static pressure | Pa(mmAq) | 0(direct blow) | |
| | Operation control & Thermostat | | | Wireless remote controller & built-in | |
| | Noise level(Low-High) | | dB | 39-45 | |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) | |
| | Dimensions | W | mm(in.) | 1,400(55-1/8) | |
| | | D | mm(in.) | 235(9-1/4) | |
| | | H | mm(in.) | 340(13-3/8) | |
| | Weight | | kg(lbs) | 24(53) | |
| OUTDOOR UNIT | **Service Ref.** | | | **PUH-P2.5VGAA**<br>**PUH-P2.5VGAA.UK / PUH-P2.5YGAA.UK**<br>**PUH-P2.5VGAA$_1$.UK/ PUH-P2.5YGAA$_1$.UK** | |

| Item \ Service Ref. | | | | PKA-RP3FAL | |
|---|---|---|---|---|---|
| Function | | | | Cooling | Heating |
| Capacity | | | Btu/h | 26,800 | 32,100 |
| | | | W | 7,850 | 9,400 |
| Total input | | | kW | 3.43 | 3.61 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP3FAL** | |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V | |
| | | Input | kW | 0.09 | 0.09 |
| | | Running current | A | 0.43 | 0.43 |
| | | Starting current | A | 0.80 | 0.80 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 | |
| | Heat exchanger | | | Plate fin coil | |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 | |
| | | Fan motor output | kW | 0.040 | |
| | | Airflow(Low-High) | m³/min(CFM) | 15-20(530-705) | |
| | | External static pressure | Pa(mmAq) | 0(direct blow) | |
| | Operation control & Thermostat | | | Wireless remote controller & built-in | |
| | Noise level(Low-High) | | dB | 39-45 | |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) | |
| | Dimensions | W | mm(in.) | 1,400(55-1/8) | |
| | | D | mm(in.) | 235(9-1/4) | |
| | | H | mm(in.) | 340(13-3/8) | |
| | Weight | | kg(lbs) | 24(53) | |
| OUTDOOR UNIT | **Service Ref.** | | | **PUH-P3VGAA / PUH-P3YGAA**<br>**PUH-P3VGAA.UK / PUH-P3YGAA.UK**<br>**PUH-P3VGAA$_1$.UK / PUH-P3YGAA$_1$.UK** | |

Notes1. Rating Conditions (ISO T1)
Cooling : Indoor : D.B. 27˚C(80˚F), W.B. 19˚C (66˚F) Outdoor : D.B. 35˚C(95˚F), W.B. 24˚C (75˚F)
Heating : Indoor : D.B. 20˚C(68˚F) Outdoor : D.B. 7˚C(45˚F), W.B. 6˚C (43˚F)
Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

| | | Indoor | Outdoor |
|---|---|---|---|
| Cooling | Upper limit | D.B. 35˚C, W.B. 22.5˚C | D.B. 46˚C |
| | Lower limit | D.B. 19˚C, W.B. 15˚C | D.B. -5˚C |
| Heating | Upper limit | D.B. 28˚C | D.B. 24˚C, W.B. 18˚C |
| | Lower limit | D.B. 17˚C | D.B. -11˚C, W.B. -12˚C |

3. Guaranteed voltage
198~264V, 50Hz

4. Above data based on indicated voltage
Indoor Unit Single phase 230V 50Hz
Outdoor Unit 3 phase 400V 50Hz

5. Refer to the service manual of outdoor unit for the outdoor unit's specifications.

| Item \ Service Ref. | | | | PKA-RP4FAL | |
|---|---|---|---|---|---|
| Function | | | | Cooling | Heating |
| Capacity | | | Btu/h | 32,100 | 36,800 |
| | | | W | 9,400 | 10,800 |
| Total input | | | kW | 3.59 | 3.77 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP4FAL** | |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V | |
| | | Input | kW | 0.11 | 0.11 |
| | | Running current | A | 0.52 | 0.52 |
| | | Starting current | A | 0.90 | 0.90 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 | |
| | Heat exchanger | | | Plate fin coil | |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 | |
| | | Fan motor output | kW | 0.070 | |
| | | Airflow(Low-High) | m³/min(CFM) | 22-28(775-990) | |
| | | External static pressure | Pa(mmAq) | 0(direct blow) | |
| | Operation control & Thermostat | | | Wireless remote controller & built-in | |
| | Noise level(Low-High) | | dB | 41-46 | |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) | |
| | Dimensions | W | mm(in.) | 1,680(66-1/8) | |
| | | D | mm(in.) | 235(9-1/4) | |
| | | H | mm(in.) | 340(13-3/8) | |
| | Weight | | kg(lbs) | 28(62) | |
| OUTDOOR UNIT | **Service Ref.** | | | **PUH-P4YGAA**<br>**PUH-P4VGAA.UK / PUH-P4YGAA.UK**<br>**PUH-P4VGAA$_1$.UK / PUH-P4YGAA$_1$.UK** | |

Notes1. Rating Conditions (ISO T1)
Cooling : Indoor : D.B. 27˚C(80˚F), W.B. 19˚C (66˚F) Outdoor : D.B. 35˚C(95˚F), W.B. 24˚C (75˚F)
Heating : Indoor : D.B. 20˚C(68˚F) Outdoor : D.B. 7˚C(45˚F), W.B. 6˚C (43˚F)
Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

| | | Indoor | Outdoor |
|---|---|---|---|
| Cooling | Upper limit | D.B. 35˚C, W.B. 22.5˚C | D.B. 46˚C |
| | Lower limit | D.B. 19˚C, W.B. 15˚C | D.B. -5˚C |
| Heating | Upper limit | D.B. 28˚C | D.B. 24˚C, W.B. 18˚C |
| | Lower limit | D.B. 17˚C | D.B. -11˚C, W.B. -12˚C |

3. Guaranteed voltage
198~264V, 50Hz

4. Above data based on indicated voltage
Indoor Unit Single phase 230V 50Hz
Outdoor Unit 3 phase 400V 50Hz

5. Refer to the service manual of outdoor unit for the outdoor unit's specifications.

## 4-3. Cooling only type

| Item \ Service Ref. | | | | PKA-RP2.5FAL |
|---|---|---|---|---|
| Function | | | | Cooling |
| Capacity | | | Btu/h | 22,000 |
| | | | W | 6,450 |
| Total input | | | kW | 2.65 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP2.5FAL** |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V |
| | | Input | kW | 0.09 |
| | | Running current | A | 0.43 |
| | | Starting current | A | 0.80 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 |
| | Heat exchanger | | | Plate fin coil |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 |
| | | Fan motor output | kW | 0.040 |
| | | Airflow(Low-High) | m³/min(CFM) | 15-20(530-706) |
| | | External static pressure | Pa(mmAq) | 0(direct blow) |
| | Operation control & Thermostat | | | Wireless remote controller & built-in |
| | Noise level(Low-High) | | dB | 39-45 |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) |
| | Dimensions | W | mm(in.) | 1,400(55-1/8) |
| | | D | mm(in.) | 235(9-1/4) |
| | | H | mm(in.) | 340(13-3/8) |
| | Weight | | kg(lbs) | 24(53) |
| OUTDOOR UNIT | **Service Ref.** | | | **PU-P2.5VGAA**<br>**PU-P2.5VGAA.UK /PU-P2.5YGAA.UK**<br>**PU-P2.5VGAA$_1$.UK/ PU-P2.5YGAA$_1$.UK** |

| Item \ Service Ref. | | | | PKA-RP3FAL |
|---|---|---|---|---|
| Function | | | | Cooling |
| Capacity | | | Btu/h | 26,800 |
| | | | W | 7,850 |
| Total input | | | kW | 3.43 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP3FAL** |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V |
| | | Input | kW | 0.09 |
| | | Running current | A | 0.43 |
| | | Starting current | A | 0.80 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 |
| | Heat exchanger | | | Plate fin coil |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 |
| | | Fan motor output | kW | 0.040 |
| | | Airflow(Low-High) | m³/min(CFM) | 15-20(530-705) |
| | | External static pressure | Pa(mmAq) | 0(direct blow) |
| | Operation control & Thermostat | | | Wireless remote controller & built-in |
| | Noise level(Low-High) | | dB | 39-45 |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) |
| | Dimensions | W | mm(in.) | 1,400(55-1/8) |
| | | D | mm(in.) | 235(9-1/4) |
| | | H | mm(in.) | 340(13-3/8) |
| | Weight | | kg(lbs) | 24(53) |
| OUTDOOR UNIT | **Service Ref.** | | | **PU-P3VGAA / PU-P3YGAA**<br>**PU-P3VGAA.UK / PU-P3YGAA.UK**<br>**PU-P3VGAA$_1$.UK / PU-P3YGAA$_1$.UK** |

Notes1. Rating Conditions (ISO T1)
Cooling : Indoor : D.B. 27˚C(80˚F), W.B. 19˚C (66˚F) Outdoor : D.B. 35˚C(95˚F), W.B. 24˚C (75˚F)
Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

| | | Indoor | Outdoor |
|---|---|---|---|
| Cooling | Upper limit | D.B. 35˚C, W.B. 22.5˚C | D.B. 46˚C |
| | Lower limit | D.B. 19˚C, W.B. 15˚C | D.B. -5˚C |

3. Guaranteed voltage
198~264V, 50Hz

4. Above data based on indicated voltage
Indoor Unit Single phase 230V 50Hz
Outdoor Unit 3 phase 400V 50Hz

5. Refer to the service manual of outdoor unit for the outdoor unit's specifications.

| Item \ Service Ref. | | | | PKA-RP4FAL |
|---|---|---|---|---|
| Function | | | | Cooling |
| Capacity | | | Btu/h | 32,100 |
| | | | W | 9,400 |
| Total input | | | kW | 3.59 |
| INDOOR UNIT | **Service Ref.** | | | **PKA-RP4FAL** |
| | Power supply(phase, cycle, voltage) | | | Single phase, 50Hz, 220-230-240V |
| | | Input | kW | 0.11 |
| | | Running current | A | 0.52 |
| | | Starting current | A | 0.90 |
| | External finish | | | Munsell 3.4Y 7.7/0.8 |
| | Heat exchanger | | | Plate fin coil |
| | Fan | Fan(drive) x No. | | Line flow (direct) x 2 |
| | | Fan motor output | kW | 0.070 |
| | | Airflow(Low-High) | $m^3$/min(CFM) | 22-28(775-990) |
| | | External static pressure | Pa(mmAq) | 0(direct blow) |
| | Operation control & Thermostat | | | Wireless remote controller & built-in |
| | Noise level(Low-High) | | dB | 41-46 |
| | Unit drain pipe O.D. | | mm(in.) | 26(1) |
| | Dimensions | W | mm(in.) | 1,680(66-1/8) |
| | | D | mm(in.) | 235(9-1/4) |
| | | H | mm(in.) | 340(13-3/8) |
| | Weight | | kg(lbs) | 28(62) |
| OUTDOOR UNIT | **Service Ref.** | | | **PU-P4YGAA**<br>**PU-P4VGAA.UK / PU-P4YGAA.UK**<br>**PU-P4VGAA1.UK / PU-P4YGAA1.UK** |

Notes1. Rating Conditions (ISO T1)
Cooling : Indoor : D.B. 27˚C(80˚F), W.B. 19˚C (66˚F) Outdoor : D.B. 35˚C(95˚F), W.B. 24˚C (75˚F)
Refrigerant piping length (one way) : 5m (16ft)

2. Guaranteed operating range

| | | Indoor | Outdoor |
|---|---|---|---|
| Cooling | Upper limit | D.B. 35˚C, W.B. 22.5˚C | D.B. 46˚C |
| | Lower limit | D.B. 19˚C, W.B. 15˚C | D.B. -5˚C |

3. Guaranteed voltage
198~264V, 50Hz

4. Above data based on indicated voltage
Indoor Unit Single phase 230V 50Hz
Outdoor Unit 3 phase 400V 50Hz

5. Refer to the service manual of outdoor unit for the outdoor unit's specifications.

# 5 DATA

## 5-1. PERFORMANCE DATA

### COOLING CAPACITY(1)

### PKA-RP2.5FAL / PUHZ-RP2.5VHA

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | | | 25 | | | | 30 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 5,940 | 4,336 | 0.73 | 1.24 | 5,760 | 4,205 | 0.73 | 1.31 | 5,580 | 4,073 | 0.73 | 1.39 |
| 20 | 18 | 6,360 | 3,880 | 0.61 | 1.26 | 6,180 | 3,770 | 0.61 | 1.33 | 5,970 | 3,642 | 0.61 | 1.43 |
| 20 | 20 | 6,840 | 3,352 | 0.49 | 1.30 | 6,690 | 3,278 | 0.49 | 1.36 | 6,510 | 3,190 | 0.49 | 1.46 |
| 22 | 16 | 5,940 | 4,811 | 0.81 | 1.24 | 5,760 | 4,666 | 0.81 | 1.31 | 5,580 | 4,520 | 0.81 | 1.39 |
| 22 | 18 | 6,360 | 4,388 | 0.69 | 1.26 | 6,180 | 4,264 | 0.69 | 1.33 | 5,970 | 4,119 | 0.69 | 1.43 |
| 22 | 20 | 6,840 | 3,899 | 0.57 | 1.30 | 6,690 | 3,813 | 0.57 | 1.36 | 6,510 | 3,711 | 0.57 | 1.46 |
| 24 | 16 | 5,940 | 5,287 | 0.89 | 1.33 | 7,140 | 5,126 | 0.89 | 1.31 | 5,580 | 4,966 | 0.89 | 1.50 |
| 24 | 18 | 6,360 | 4,897 | 0.77 | 1.24 | 5,760 | 4,759 | 0.77 | 1.33 | 5,970 | 4,597 | 0.77 | 1.39 |
| 24 | 20 | 6,840 | 4,446 | 0.65 | 1.26 | 6,180 | 4,349 | 0.65 | 1.36 | 6,510 | 4,232 | 0.65 | 1.43 |
| 24 | 22 | 7,290 | 3,864 | 0.53 | 1.30 | 6,690 | 3,784 | 0.53 | 1.41 | 6,960 | 3,689 | 0.53 | 1.46 |
| 26 | 16 | 5,940 | 5,762 | 0.97 | 1.24 | 5,760 | 5,587 | 0.97 | 1.31 | 5,580 | 5,413 | 0.97 | 1.39 |
| 26 | 18 | 6,360 | 5,406 | 0.85 | 1.26 | 6,180 | 5,253 | 0.85 | 1.33 | 5,970 | 5,075 | 0.85 | 1.43 |
| 26 | 20 | 6,840 | 4,993 | 0.73 | 1.30 | 6,690 | 4,884 | 0.73 | 1.36 | 6,510 | 4,752 | 0.73 | 1.46 |
| 26 | 22 | 7,290 | 4,447 | 0.61 | 1.33 | 7,140 | 4,355 | 0.61 | 1.41 | 6,960 | 4,246 | 0.61 | 1.50 |
| 27 | 16 | 5,940 | 5,940 | 1.00 | 1.24 | 5,760 | 5,760 | 1.00 | 1.31 | 5,580 | 5,580 | 1.00 | 1.39 |
| 27 | 18 | 6,360 | 5,660 | 0.89 | 1.26 | 6,180 | 5,500 | 0.89 | 1.33 | 5,970 | 5,313 | 0.89 | 1.43 |
| 27 | 20 | 6,840 | 5,267 | 0.77 | 1.30 | 6,690 | 5,151 | 0.77 | 1.36 | 6,510 | 5,013 | 0.77 | 1.46 |
| 27 | 22 | 7,290 | 4,739 | 0.65 | 1.33 | 7,140 | 4,641 | 0.65 | 1.41 | 6,960 | 4,524 | 0.65 | 1.50 |
| 28 | 16 | 5,940 | 5,940 | 1.00 | 1.24 | 5,760 | 5,760 | 1.00 | 1.31 | 5,580 | 5,580 | 1.00 | 1.39 |
| 28 | 18 | 6,360 | 5,915 | 0.93 | 1.26 | 6,180 | 5,747 | 0.93 | 1.33 | 5,970 | 5,552 | 0.93 | 1.43 |
| 28 | 20 | 6,840 | 5,540 | 0.81 | 1.30 | 6,690 | 5,419 | 0.81 | 1.36 | 6,510 | 5,273 | 0.81 | 1.46 |
| 28 | 22 | 7,290 | 5,030 | 0.69 | 1.33 | 7,140 | 4,927 | 0.69 | 1.41 | 6,960 | 4,802 | 0.69 | 1.50 |
| 30 | 16 | 5,940 | 5,940 | 1.00 | 1.24 | 5,760 | 5,760 | 1.00 | 1.31 | 5,580 | 5,580 | 1.00 | 1.39 |
| 30 | 18 | 6,360 | 6,360 | 1.00 | 1.26 | 6,180 | 6,180 | 1.00 | 1.33 | 5,970 | 5,970 | 1.00 | 1.43 |
| 30 | 20 | 6,840 | 6,088 | 0.89 | 1.30 | 6,690 | 5,954 | 0.89 | 1.36 | 6,510 | 5,794 | 0.89 | 1.46 |
| 30 | 22 | 7,290 | 5,613 | 0.77 | 1.33 | 7,140 | 5,498 | 0.77 | 1.41 | 6,960 | 5,359 | 0.77 | 1.50 |
| 32 | 16 | 5,940 | 5,940 | 1.00 | 1.24 | 5,760 | 5,760 | 1.00 | 1.31 | 5,580 | 5,580 | 1.00 | 1.39 |
| 32 | 18 | 6,360 | 6,360 | 1.00 | 1.26 | 6,180 | 6,180 | 1.00 | 1.33 | 5,970 | 5,970 | 1.00 | 1.43 |
| 32 | 20 | 6,840 | 6,635 | 0.97 | 1.30 | 6,690 | 6,489 | 0.97 | 1.36 | 6,510 | 6,315 | 0.97 | 1.46 |
| 32 | 22 | 7,290 | 6,197 | 0.85 | 1.33 | 7,140 | 6,069 | 0.85 | 1.41 | 6,960 | 5,916 | 0.85 | 1.50 |
| 34 | 16 | 5,940 | 5,940 | 1.00 | 1.24 | 5,760 | 5,760 | 1.00 | 1.31 | 5,580 | 5,580 | 1.00 | 1.39 |
| 34 | 18 | 6,360 | 6,360 | 1.00 | 1.26 | 6,180 | 6,180 | 1.00 | 1.33 | 5,970 | 5,970 | 1.00 | 1.43 |
| 34 | 20 | 6,840 | 6,840 | 1.00 | 1.30 | 6,690 | 6,690 | 1.00 | 1.36 | 6,510 | 6,510 | 1.00 | 1.46 |
| 34 | 22 | 7,290 | 6,780 | 0.93 | 1.33 | 7,140 | 6,640 | 0.93 | 1.41 | 6,960 | 6,473 | 0.93 | 1.50 |

CA : Capacity (W) SHC(W) :Sensible heat capacity
P.C. : Power consumption (kW) SHF : Sensible heat factor

**COOLING CAPACITY(2)**
**PKA-RP2.5FAL / PUHZ-RP2.5VHA**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 35 | | | | 40 | | | | 45 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 5,340 | 3,898 | 0.73 | 1.49 | 5,100 | 3,723 | 0.73 | 1.60 | 4,860 | 3,548 | 0.73 | 1.73 |
| 20 | 18 | 5,760 | 3,514 | 0.61 | 1.53 | 5,580 | 3,404 | 0.61 | 1.64 | 5,220 | 3,184 | 0.61 | 1.77 |
| 20 | 20 | 6,240 | 3,058 | 0.49 | 1.57 | 6,000 | 2,940 | 0.49 | 1.67 | 5,640 | 2,764 | 0.49 | 1.80 |
| 22 | 16 | 5,340 | 4,325 | 0.81 | 1.49 | 5,100 | 4,131 | 0.81 | 1.60 | 4,860 | 3,937 | 0.81 | 1.73 |
| 22 | 18 | 5,760 | 3,974 | 0.69 | 1.53 | 5,580 | 3,850 | 0.69 | 1.64 | 5,220 | 3,602 | 0.69 | 1.77 |
| 22 | 20 | 6,240 | 3,557 | 0.57 | 1.57 | 6,000 | 3,420 | 0.57 | 1.67 | 5,640 | 3,215 | 0.57 | 1.80 |
| 24 | 16 | 5,340 | 4,753 | 0.89 | 1.49 | 5,100 | 4,539 | 0.89 | 1.60 | 4,860 | 4,325 | 0.89 | 1.73 |
| 24 | 18 | 5,760 | 4,435 | 0.77 | 1.53 | 5,580 | 4,297 | 0.77 | 1.64 | 5,220 | 4,019 | 0.77 | 1.77 |
| 24 | 20 | 6,240 | 4,056 | 0.65 | 1.57 | 6,000 | 3,900 | 0.65 | 1.67 | 5,640 | 3,666 | 0.65 | 1.80 |
| 24 | 22 | 6,720 | 3,562 | 0.53 | 1.60 | 6,480 | 3,434 | 0.53 | 1.72 | 6,120 | 3,244 | 0.53 | 1.83 |
| 26 | 16 | 5,340 | 5,180 | 0.97 | 1.49 | 5,100 | 4,947 | 0.97 | 1.60 | 4,860 | 4,714 | 0.97 | 1.73 |
| 26 | 18 | 5,760 | 4,896 | 0.85 | 1.53 | 5,580 | 4,743 | 0.85 | 1.64 | 5,220 | 4,437 | 0.85 | 1.77 |
| 26 | 20 | 6,240 | 4,555 | 0.73 | 1.57 | 6,000 | 4,380 | 0.73 | 1.67 | 5,640 | 4,117 | 0.73 | 1.80 |
| 26 | 22 | 6,720 | 4,099 | 0.61 | 1.60 | 6,480 | 3,953 | 0.61 | 1.72 | 6,120 | 3,733 | 0.61 | 1.83 |
| 27 | 16 | 5,340 | 5,340 | 1.00 | 1.49 | 5,100 | 5,100 | 1.00 | 1.60 | 4,860 | 4,860 | 1.00 | 1.73 |
| 27 | 18 | 5,760 | 5,126 | 0.89 | 1.53 | 5,580 | 4,966 | 0.89 | 1.64 | 5,220 | 4,646 | 0.89 | 1.77 |
| 27 | 20 | 6,240 | 4,805 | 0.77 | 1.57 | 6,000 | 4,620 | 0.77 | 1.67 | 5,640 | 4,343 | 0.77 | 1.80 |
| 27 | 22 | 6,720 | 4,368 | 0.65 | 1.60 | 6,480 | 4,212 | 0.65 | 1.72 | 6,120 | 3,978 | 0.65 | 1.83 |
| 28 | 16 | 5,340 | 5,340 | 1.00 | 1.49 | 5,100 | 5,100 | 1.00 | 1.60 | 4,860 | 4,860 | 1.00 | 1.73 |
| 28 | 18 | 5,760 | 5,357 | 0.93 | 1.53 | 5,580 | 5,189 | 0.93 | 1.64 | 5,220 | 4,855 | 0.93 | 1.77 |
| 28 | 20 | 6,240 | 5,054 | 0.81 | 1.57 | 6,000 | 4,860 | 0.81 | 1.67 | 5,640 | 4,568 | 0.81 | 1.80 |
| 28 | 22 | 6,720 | 4,637 | 0.69 | 1.60 | 6,480 | 4,471 | 0.69 | 1.72 | 6,120 | 4,223 | 0.69 | 1.83 |
| 30 | 16 | 5,340 | 5,340 | 1.00 | 1.49 | 5,100 | 5,100 | 1.00 | 1.60 | 4,860 | 4,860 | 1.00 | 1.73 |
| 30 | 18 | 5,760 | 5,760 | 1.00 | 1.53 | 5,580 | 5,580 | 1.00 | 1.64 | 5,220 | 5,220 | 1.00 | 1.77 |
| 30 | 20 | 6,240 | 5,554 | 0.89 | 1.57 | 6,000 | 5,340 | 0.89 | 1.67 | 5,640 | 5,020 | 0.89 | 1.80 |
| 30 | 22 | 6,720 | 5,174 | 0.77 | 1.60 | 6,480 | 4,990 | 0.77 | 1.72 | 6,120 | 4,712 | 0.77 | 1.83 |
| 32 | 16 | 5,340 | 5,340 | 1.00 | 1.49 | 5,100 | 5,100 | 1.00 | 1.60 | 4,860 | 4,860 | 1.00 | 1.73 |
| 32 | 18 | 5,760 | 5,760 | 1.00 | 1.53 | 5,580 | 5,580 | 1.00 | 1.64 | 5,220 | 5,220 | 1.00 | 1.77 |
| 32 | 20 | 6,240 | 6,053 | 0.97 | 1.57 | 6,000 | 5,820 | 0.97 | 1.67 | 5,640 | 5,471 | 0.97 | 1.80 |
| 32 | 22 | 6,720 | 5,712 | 0.85 | 1.60 | 6,480 | 5,508 | 0.85 | 1.72 | 6,120 | 5,202 | 0.85 | 1.83 |
| 34 | 16 | 5,340 | 5,340 | 1.00 | 1.49 | 5,100 | 5,100 | 1.00 | 1.60 | 4,860 | 4,860 | 1.00 | 1.73 |
| 34 | 18 | 5,760 | 5,760 | 1.00 | 1.53 | 5,580 | 5,580 | 1.00 | 1.64 | 5,220 | 5,220 | 1.00 | 1.77 |
| 34 | 20 | 6,240 | 6,240 | 1.00 | 1.57 | 6,000 | 6,000 | 1.00 | 1.67 | 5,640 | 5,640 | 1.00 | 1.80 |
| 34 | 22 | 6,720 | 6,250 | 0.93 | 1.60 | 6,480 | 6,026 | 0.93 | 1.72 | 6,120 | 5,692 | 0.93 | 1.83 |

CA : Capacity (W)
SHC(W) :Sensible heat capacity
P.C. : Power consumption (kW)
SHF : Sensible heat factor

**COOLING CAPACITY(3)**
**PKA-RP3FAL / PUHZ-RP3VHA**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | | | 25 | | | | 30 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 7,029 | 4,709 | 0.67 | 1.58 | 6,816 | 4,567 | 0.67 | 1.67 | 6,603 | 4,424 | 0.67 | 1.77 |
| 20 | 18 | 7,526 | 4,139 | 0.55 | 1.61 | 7,313 | 4,022 | 0.55 | 1.70 | 7,065 | 3,885 | 0.55 | 1.82 |
| 20 | 20 | 8,094 | 3,480 | 0.43 | 1.66 | 7,917 | 3,404 | 0.43 | 1.74 | 7,704 | 3,313 | 0.43 | 1.86 |
| 22 | 16 | 7,029 | 5,272 | 0.75 | 1.58 | 6,816 | 5,112 | 0.75 | 1.67 | 6,603 | 4,952 | 0.75 | 1.77 |
| 22 | 18 | 7,526 | 4,741 | 0.63 | 1.61 | 7,313 | 4,607 | 0.63 | 1.70 | 7,065 | 4,451 | 0.63 | 1.82 |
| 22 | 20 | 8,094 | 4,128 | 0.51 | 1.66 | 7,917 | 4,037 | 0.51 | 1.74 | 7,704 | 3,929 | 0.51 | 1.86 |
| 24 | 16 | 7,029 | 5,834 | 0.83 | 1.58 | 6,816 | 5,657 | 0.83 | 1.67 | 6,603 | 5,480 | 0.83 | 1.77 |
| 24 | 18 | 7,526 | 5,343 | 0.71 | 1.61 | 7,313 | 5,192 | 0.71 | 1.70 | 7,065 | 5,016 | 0.71 | 1.82 |
| 24 | 20 | 8,094 | 4,775 | 0.59 | 1.66 | 7,917 | 4,671 | 0.59 | 1.74 | 7,704 | 4,545 | 0.59 | 1.86 |
| 24 | 22 | 8,627 | 4,054 | 0.47 | 1.70 | 8,449 | 3,971 | 0.47 | 1.80 | 8,236 | 3,871 | 0.47 | 1.92 |
| 26 | 16 | 7,029 | 6,396 | 0.91 | 1.58 | 6,816 | 6,203 | 0.91 | 1.67 | 6,603 | 6,009 | 0.91 | 1.77 |
| 26 | 18 | 7,526 | 5,946 | 0.79 | 1.61 | 7,313 | 5,777 | 0.79 | 1.70 | 7,065 | 5,581 | 0.79 | 1.82 |
| 26 | 20 | 8,094 | 5,423 | 0.67 | 1.66 | 7,917 | 5,304 | 0.67 | 1.74 | 7,704 | 5,161 | 0.67 | 1.86 |
| 26 | 22 | 8,627 | 4,745 | 0.55 | 1.70 | 8,449 | 4,647 | 0.55 | 1.80 | 8,236 | 4,530 | 0.55 | 1.92 |
| 27 | 16 | 7,029 | 6,678 | 0.95 | 1.58 | 6,816 | 6,475 | 0.95 | 1.67 | 6,603 | 6,273 | 0.95 | 1.77 |
| 27 | 18 | 7,526 | 6,247 | 0.83 | 1.61 | 7,313 | 6,070 | 0.83 | 1.70 | 7,,065 | 5,864 | 0.83 | 1.82 |
| 27 | 20 | 8,094 | 5,747 | 0.71 | 1.66 | 7,917 | 5,621 | 0.71 | 1.74 | 7,704 | 5,469 | 0.71 | 1.86 |
| 27 | 22 | 8,627 | 5,090 | 0.59 | 1.70 | 8,449 | 4,985 | 0.59 | 1.80 | 8,236 | 4,859 | 0.59 | 1.92 |
| 28 | 16 | 7,029 | 6,959 | 0.99 | 1.58 | 6,816 | 6,748 | 0.99 | 1.67 | 6,603 | 6,537 | 0.99 | 1.77 |
| 28 | 18 | 7,526 | 6,548 | 0.87 | 1.61 | 7,313 | 6,362 | 0.87 | 1.70 | 7,065 | 6,146 | 0.87 | 1.82 |
| 28 | 20 | 8,094 | 6,071 | 0.75 | 1.66 | 7,917 | 5,937 | 0.75 | 1.74 | 7,704 | 5,778 | 0.75 | 1.86 |
| 28 | 22 | 8,627 | 5,435 | 0.63 | 1.70 | 8,449 | 5,323 | 0.63 | 1.80 | 8,236 | 5,189 | 0.63 | 1.92 |
| 30 | 16 | 7,029 | 7,029 | 1.00 | 1.58 | 6,816 | 6,816 | 1.00 | 1.67 | 6,603 | 6,603 | 1.00 | 1.77 |
| 30 | 18 | 7,526 | 7,150 | 0.95 | 1.61 | 7,313 | 6,947 | 0.95 | 1.70 | 7,065 | 6,711 | 0.95 | 1.82 |
| 30 | 20 | 8,094 | 6,718 | 0.83 | 1.66 | 7,917 | 6,571 | 0.83 | 1.74 | 7,704 | 6,394 | 0.83 | 1.86 |
| 30 | 22 | 8,627 | 6,125 | 0.71 | 1.70 | 8,449 | 5,999 | 0.71 | 1.80 | 8,236 | 5,848 | 0.71 | 1.92 |
| 32 | 16 | 7,029 | 7,029 | 1.00 | 1.58 | 6,816 | 6,816 | 1.00 | 1.67 | 6,603 | 6,603 | 1.00 | 1.77 |
| 32 | 18 | 7,526 | 7,526 | 1.00 | 1.61 | 7,313 | 7,313 | 1.00 | 1.70 | 7,065 | 7,065 | 1.00 | 1.82 |
| 32 | 20 | 8,094 | 7,366 | 0.91 | 1.66 | 7,917 | 7,204 | 0.91 | 1.74 | 7,704 | 7,010 | 0.91 | 1.86 |
| 32 | 22 | 8,627 | 6,815 | 0.79 | 1.70 | 8,449 | 6,675 | 0.79 | 1.80 | 8,236 | 6,506 | 0.79 | 1.92 |
| 34 | 16 | 7,029 | 7,029 | 1.00 | 1.58 | 6,816 | 6,816 | 1.00 | 1.67 | 6,603 | 6,603 | 1.00 | 1.77 |
| 34 | 18 | 7,526 | 7,526 | 1.00 | 1.61 | 7,313 | 7,313 | 1.00 | 1.70 | 7,065 | 7,065 | 1.00 | 1.82 |
| 34 | 20 | 8,094 | 8,013 | 0.99 | 1.66 | 7,917 | 7,837 | 0.99 | 1.74 | 7,704 | 7,626 | 0.99 | 1.86 |
| 34 | 22 | 8,627 | 7,505 | 0.87 | 1.70 | 8,449 | 7,351 | 0.87 | 1.80 | 8,236 | 7,165 | 0.87 | 1.92 |

CA : Capacity (W)
P.C. : Power consumption (kW)
SHC(W) :Sensible heat capacity
SHF : Sensible heat factor

**COOLING CAPACITY(4)**
**PKA-RP3FAL / PUHZ-RP3VHA**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 35 | | | | 40 | | | | 45 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 6,319 | 4,234 | 0.67 | 1.90 | 6,035 | 4,043 | 0.67 | 2.04 | 5,751 | 3,853 | 0.67 | 2.21 |
| 20 | 18 | 6,816 | 3,749 | 0.55 | 1.95 | 6,603 | 3,632 | 0.55 | 2.10 | 6,177 | 3,397 | 0.55 | 2.26 |
| 20 | 20 | 7,384 | 3,175 | 0.43 | 2.00 | 7,100 | 3,053 | 0.43 | 2.14 | 6,674 | 2,870 | 0.43 | 2.30 |
| 22 | 16 | 6,319 | 4,739 | 0.75 | 1.90 | 6,035 | 4,526 | 0.75 | 2.04 | 5,751 | 4,313 | 0.75 | 2.21 |
| 22 | 18 | 6,816 | 4,294 | 0.63 | 1.95 | 6,603 | 4,160 | 0.63 | 2.10 | 6,177 | 3,892 | 0.63 | 2.26 |
| 22 | 20 | 7,384 | 3,766 | 0.51 | 2.00 | 7,100 | 3,621 | 0.51 | 2.14 | 6,674 | 3,404 | 0.51 | 2.30 |
| 24 | 16 | 6,319 | 5,245 | 0.83 | 1.90 | 6,035 | 5,009 | 0.83 | 2.04 | 5,751 | 4,773 | 0.83 | 2.21 |
| 24 | 18 | 6,816 | 4,839 | 0.71 | 1.95 | 6,603 | 4,688 | 0.71 | 2.10 | 6,177 | 4,386 | 0.71 | 2.26 |
| 24 | 20 | 7,384 | 4,357 | 0.59 | 2.00 | 7,100 | 4,189 | 0.59 | 2.14 | 6,674 | 3,938 | 0.59 | 2.30 |
| 24 | 22 | 7,952 | 3,737 | 0.47 | 2.04 | 7,668 | 3,604 | 0.47 | 2.20 | 7,242 | 3,404 | 0.47 | 2.34 |
| 26 | 16 | 6,319 | 5,750 | 0.91 | 1.90 | 6,035 | 5,492 | 0.91 | 2.04 | 5,751 | 5,233 | 0.91 | 2.21 |
| 26 | 18 | 6,816 | 5,385 | 0.79 | 1.95 | 6,603 | 5,216 | 0.79 | 2.10 | 6,177 | 4,880 | 0.79 | 2.26 |
| 26 | 20 | 7,384 | 4,947 | 0.67 | 2.00 | 7,100 | 4,757 | 0.67 | 2.14 | 6,674 | 4,472 | 0.67 | 2.30 |
| 26 | 22 | 7,952 | 4,374 | 0.55 | 2.04 | 7,668 | 4,217 | 0.55 | 2.20 | 7,242 | 3,983 | 0.55 | 2.34 |
| 27 | 16 | 6,319 | 6,003 | 0.95 | 1.90 | 6,035 | 5,733 | 0.95 | 2.04 | 5,751 | 5,463 | 0.95 | 2.21 |
| 27 | 18 | 6,816 | 5,657 | 0.83 | 1.95 | 6,603 | 5,480 | 0.83 | 2.10 | 6,177 | 5,127 | 0.83 | 2.26 |
| 27 | 20 | 7,384 | 5,243 | 0.71 | 2.00 | 7,100 | 5,041 | 0.71 | 2.14 | 6,674 | 4,739 | 0.71 | 2.30 |
| 27 | 22 | 7,952 | 4,692 | 0.59 | 2.04 | 7,668 | 4,524 | 0.59 | 2.20 | 7,242 | 4,273 | 0.59 | 2.34 |
| 28 | 16 | 6,319 | 6,256 | 0.99 | 1.90 | 6,035 | 5,975 | 0.99 | 2.04 | 5,751 | 5,693 | 0.99 | 2.21 |
| 28 | 18 | 6,816 | 5,930 | 0.87 | 1.95 | 6,603 | 5,745 | 0.87 | 2.10 | 6,177 | 5,374 | 0.87 | 2.26 |
| 28 | 20 | 7,384 | 5,538 | 0.75 | 2.00 | 7,100 | 5,325 | 0.75 | 2.14 | 6,674 | 5,006 | 0.75 | 2.30 |
| 28 | 22 | 7,952 | 5,010 | 0.63 | 2.04 | 7,668 | 4,831 | 0.63 | 2.20 | 7,242 | 4,562 | 0.63 | 2.34 |
| 30 | 16 | 6,319 | 6,319 | 1.00 | 1.90 | 6,035 | 6,035 | 1.00 | 2.04 | 5,751 | 5,751 | 1.00 | 2.21 |
| 30 | 18 | 6,816 | 6,475 | 0.95 | 1.95 | 6,603 | 6,273 | 0.95 | 2.10 | 6,177 | 5,868 | 0.95 | 2.26 |
| 30 | 20 | 7,384 | 6,129 | 0.83 | 2.00 | 7,100 | 5,893 | 0.83 | 2.14 | 6,674 | 5,539 | 0.83 | 2.30 |
| 30 | 22 | 7,952 | 5,646 | 0.71 | 2.04 | 7,668 | 5,444 | 0.71 | 2.20 | 7,242 | 5,142 | 0.71 | 2.34 |
| 32 | 16 | 6,319 | 6,319 | 1.00 | 1.90 | 6,035 | 6,035 | 1.00 | 2.04 | 5,751 | 5,751 | 1.00 | 2.21 |
| 32 | 18 | 6,816 | 6,816 | 1.00 | 1.95 | 6,603 | 6,603 | 1.00 | 2.10 | 6,177 | 6,177 | 1.00 | 2.26 |
| 32 | 20 | 7,384 | 6,719 | 0.91 | 2.00 | 7,100 | 6,461 | 0.91 | 2.14 | 6,674 | 6,073 | 0.91 | 2.30 |
| 32 | 22 | 7,952 | 6,282 | 0.79 | 2.04 | 7,668 | 6,058 | 0.79 | 2.20 | 7,242 | 5,721 | 0.79 | 2.34 |
| 34 | 16 | 6,319 | 6,319 | 1.00 | 1.90 | 6,035 | 6,035 | 1.00 | 2.04 | 5,751 | 5,751 | 1.00 | 2.21 |
| 34 | 18 | 6,816 | 6,816 | 1.00 | 1.95 | 6,603 | 6,603 | 1.00 | 2.10 | 6,177 | 6,177 | 1.00 | 2.26 |
| 34 | 20 | 7,384 | 7,310 | 0.99 | 2.00 | 7,100 | 7,029 | 0.99 | 2.14 | 6,674 | 6,607 | 0.99 | 2.30 |
| 34 | 22 | 7,952 | 6,918 | 0.87 | 2.04 | 7,668 | 6,671 | 0.87 | 2.20 | 7,242 | 6,301 | 0.87 | 2.34 |

CA : Capacity (W)
P.C. : Power consumption (kW)
SHC(W) :Sensible heat capacity
SHF : Sensible heat factor

**COOLING CAPACITY(5)**
**PKA-RP4FAL / PUHZ-RP4VHA**
**PUHZ-RP4VHA1**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | | | 25 | | | | 30 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 9,900 | 6,039 | 0.61 | 2.34 | 9,600 | 5,856 | 0.61 | 2.48 | 9,300 | 5,673 | 0.61 | 2.62 |
| 20 | 18 | 10,600 | 5,194 | 0.49 | 2.39 | 10,300 | 5,047 | 0.49 | 2.52 | 9,950 | 4,876 | 0.49 | 2.70 |
| 20 | 20 | 11,400 | 4,218 | 0.37 | 2.46 | 11,150 | 4,126 | 0.37 | 2.58 | 10,850 | 4,015 | 0.37 | 2.75 |
| 22 | 16 | 9,900 | 6,831 | 0.69 | 2.34 | 9,600 | 6,624 | 0.69 | 2.48 | 9,300 | 6,417 | 0.69 | 2.62 |
| 22 | 18 | 10,600 | 6,042 | 0.57 | 2.39 | 10,300 | 5,871 | 0.57 | 2.52 | 9,950 | 5,672 | 0.57 | 2.70 |
| 22 | 20 | 11,400 | 5,130 | 0.45 | 2.46 | 11,150 | 5,018 | 0.45 | 2.58 | 10,850 | 4,883 | 0.45 | 2.75 |
| 24 | 16 | 9,900 | 7,623 | 0.77 | 2.34 | 9,600 | 7,392 | 0.77 | 2.48 | 9,300 | 7,161 | 0.77 | 2.62 |
| 24 | 18 | 10,600 | 6,890 | 0.65 | 2.39 | 10,300 | 6,695 | 0.65 | 2.52 | 9,950 | 6,468 | 0.65 | 2.70 |
| 24 | 20 | 11,400 | 6,042 | 0.53 | 2.46 | 11,150 | 5,910 | 0.53 | 2.58 | 10,850 | 5,751 | 0.53 | 2.75 |
| 24 | 22 | 12,150 | 4,982 | 0.41 | 2.52 | 11,900 | 4,879 | 0.41 | 2.67 | 11,600 | 4,756 | 0.41 | 2.84 |
| 26 | 16 | 9,900 | 8,415 | 0.85 | 2.34 | 9,600 | 8,160 | 0.85 | 2.48 | 9,300 | 7,905 | 0.85 | 2.62 |
| 26 | 18 | 10,600 | 7,738 | 0.73 | 2.39 | 10,300 | 7,519 | 0.73 | 2.52 | 9,950 | 7,264 | 0.73 | 2.70 |
| 26 | 20 | 11,400 | 6,954 | 0.61 | 2.46 | 11,150 | 6,802 | 0.61 | 2.58 | 10,850 | 6,619 | 0.61 | 2.75 |
| 26 | 22 | 12,150 | 5,954 | 0.49 | 2.52 | 11,900 | 5,831 | 0.49 | 2.67 | 11,600 | 5,684 | 0.49 | 2.84 |
| 27 | 16 | 9,900 | 8,811 | 0.89 | 2.34 | 9,600 | 8,544 | 0.89 | 2.48 | 9,300 | 8,277 | 0.89 | 2.62 |
| 27 | 18 | 10,600 | 8,162 | 0.77 | 2.39 | 10,300 | 7,931 | 0.77 | 2.52 | 9,950 | 7,662 | 0.77 | 2.70 |
| 27 | 20 | 11,400 | 7,410 | 0.65 | 2.46 | 11,150 | 7,248 | 0.65 | 2.58 | 10,850 | 7,053 | 0.65 | 2.75 |
| 27 | 22 | 12,150 | 6,440 | 0.53 | 2.52 | 11,900 | 6,307 | 0.53 | 2.67 | 11,600 | 6,148 | 0.53 | 2.84 |
| 28 | 16 | 9,900 | 9,207 | 0.93 | 2.34 | 9,600 | 8,928 | 0.93 | 2.48 | 9,300 | 8,649 | 0.93 | 2.62 |
| 28 | 18 | 10,600 | 8,586 | 0.81 | 2.39 | 10,300 | 8,343 | 0.81 | 2.52 | 9,950 | 8,060 | 0.81 | 2.70 |
| 28 | 20 | 11,400 | 7,866 | 0.69 | 2.46 | 11,150 | 7,694 | 0.69 | 2.58 | 10,850 | 7,487 | 0.69 | 2.75 |
| 28 | 22 | 12,150 | 6,926 | 0.57 | 2.52 | 11,900 | 6,783 | 0.57 | 2.67 | 11,600 | 6,612 | 0.57 | 2.84 |
| 30 | 16 | 9,900 | 9,900 | 1.00 | 2.34 | 9,600 | 9,600 | 1.00 | 2.48 | 9,300 | 9,300 | 1.00 | 2.62 |
| 30 | 18 | 10,600 | 9,434 | 0.89 | 2.39 | 10,300 | 9,167 | 0.89 | 2.52 | 9,950 | 8,856 | 0.89 | 2.70 |
| 30 | 20 | 11,400 | 8,778 | 0.77 | 2.46 | 11,150 | 8,586 | 0.77 | 2.58 | 10,850 | 8,355 | 0.77 | 2.75 |
| 30 | 22 | 12,150 | 7,898 | 0.65 | 2.52 | 11,900 | 7,735 | 0.65 | 2.67 | 11,600 | 7,540 | 0.65 | 2.84 |
| 32 | 16 | 9,900 | 9,900 | 1.00 | 2.34 | 9,600 | 9,600 | 1.00 | 2.48 | 9,300 | 9,300 | 1.00 | 2.62 |
| 32 | 18 | 10,600 | 10,282 | 0.97 | 2.39 | 10,300 | 9,991 | 0.97 | 2.52 | 9,950 | 9,652 | 0.97 | 2.70 |
| 32 | 20 | 11,400 | 9,690 | 0.85 | 2.46 | 11,150 | 9,478 | 0.85 | 2.58 | 10,850 | 9,223 | 0.85 | 2.75 |
| 32 | 22 | 12,150 | 8,870 | 0.73 | 2.52 | 11,900 | 8,687 | 0.73 | 2.67 | 11,600 | 8,468 | 0.73 | 2.84 |
| 34 | 16 | 9,900 | 9,900 | 1.00 | 2.34 | 9,600 | 9,600 | 1.00 | 2.48 | 9,300 | 9,300 | 1.00 | 2.62 |
| 34 | 18 | 10,600 | 10,600 | 1.00 | 2.39 | 10,300 | 10,300 | 1.00 | 2.52 | 9,950 | 9,950 | 1.00 | 2.70 |
| 34 | 20 | 11,400 | 10,602 | 0.93 | 2.46 | 11,150 | 10,370 | 0.93 | 2.58 | 10,850 | 10,091 | 0.93 | 2.75 |
| 34 | 22 | 12,150 | 9,842 | 0.81 | 2.52 | 11,900 | 9,639 | 0.81 | 2.67 | 11,600 | 9,396 | 0.81 | 2.84 |

CA : Capacity (W)
SHC(W) :Sensible heat capacity
P.C. : Power consumption (kW)
SHF : Sensible heat factor

**COOLING CAPACITY(6)**
**PKA-RP4FAL / PUHZ-RP4VHA**
**PUHZ-RP4VHA1**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 35 | | | | 40 | | | | 45 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 8,900 | 5,429 | 0.61 | 2.81 | 8,500 | 5,185 | 0.61 | 3.02 | 8,100 | 4,941 | 0.61 | 3.27 |
| 20 | 18 | 9,600 | 4,704 | 0.49 | 2.89 | 9,300 | 4,557 | 0.49 | 3.11 | 8,700 | 4,263 | 0.49 | 3.34 |
| 20 | 20 | 10,400 | 3,848 | 0.37 | 2.96 | 10,000 | 3,700 | 0.37 | 3.16 | 9,400 | 3,478 | 0.37 | 3.40 |
| 22 | 16 | 8,900 | 6,141 | 0.69 | 2.81 | 8,500 | 5,865 | 0.69 | 3.02 | 8,100 | 5,589 | 0.69 | 3.27 |
| 22 | 18 | 9,600 | 5,472 | 0.57 | 2.89 | 9,300 | 5,301 | 0.57 | 3.11 | 8,700 | 4,959 | 0.57 | 3.34 |
| 22 | 20 | 10,400 | 4,680 | 0.45 | 2.96 | 10,000 | 4,500 | 0.45 | 3.16 | 9,400 | 4,230 | 0.45 | 3.40 |
| 24 | 16 | 8,900 | 6,853 | 0.77 | 2.81 | 8,500 | 6,545 | 0.77 | 3.02 | 8,100 | 6,237 | 0.77 | 3.27 |
| 24 | 18 | 9,600 | 6,240 | 0.65 | 2.89 | 9,300 | 6,045 | 0.65 | 3.11 | 8,700 | 5,655 | 0.65 | 3.34 |
| 24 | 20 | 10,400 | 5,512 | 0.53 | 2.96 | 10,000 | 5,300 | 0.53 | 3.16 | 9,400 | 4,982 | 0.53 | 3.40 |
| 24 | 22 | 11,200 | 4,592 | 0.41 | 3.02 | 10,800 | 4,428 | 0.41 | 3.25 | 10,200 | 4,182 | 0.41 | 3.46 |
| 26 | 16 | 8,900 | 7,565 | 0.85 | 2.81 | 8,500 | 7,225 | 0.85 | 3.02 | 8,100 | 6,885 | 0.85 | 3.27 |
| 26 | 18 | 9,600 | 7,008 | 0.73 | 2.89 | 9,300 | 6,789 | 0.73 | 3.11 | 8,700 | 6,351 | 0.73 | 3.34 |
| 26 | 20 | 10,400 | 6,344 | 0.61 | 2.96 | 10,000 | 6,100 | 0.61 | 3.16 | 9,400 | 5,734 | 0.61 | 3.40 |
| 26 | 22 | 11,200 | 5,488 | 0.49 | 3.02 | 10,800 | 5,292 | 0.49 | 3.25 | 10,200 | 4,998 | 0.49 | 3.46 |
| 27 | 16 | 8,900 | 7,921 | 0.89 | 2.81 | 8,500 | 7,565 | 0.89 | 3.02 | 8,100 | 7,209 | 0.89 | 3.27 |
| 27 | 18 | 9,600 | 7,392 | 0.77 | 2.89 | 9,300 | 7,161 | 0.77 | 3.11 | 8,700 | 6,699 | 0.77 | 3.34 |
| 27 | 20 | 10,400 | 6,760 | 0.65 | 2.96 | 10,000 | 6,500 | 0.65 | 3.16 | 9,400 | 6,110 | 0.65 | 3.40 |
| 27 | 22 | 11,200 | 5,936 | 0.53 | 3.02 | 10,800 | 5,724 | 0.53 | 3.25 | 10,200 | 5,406 | 0.53 | 3.46 |
| 28 | 16 | 8,900 | 8,277 | 0.93 | 2.81 | 8,500 | 7,905 | 0.93 | 3.02 | 8,100 | 7,533 | 0.93 | 3.27 |
| 28 | 18 | 9,600 | 7,776 | 0.81 | 2.89 | 9,300 | 7,533 | 0.81 | 3.11 | 8,700 | 7,047 | 0.81 | 3.34 |
| 28 | 20 | 10,400 | 7,176 | 0.69 | 2.96 | 10,000 | 6,900 | 0.69 | 3.16 | 9,400 | 6,486 | 0.69 | 3.40 |
| 28 | 22 | 11,200 | 6,384 | 0.57 | 3.02 | 10,800 | 6,156 | 0.57 | 3.25 | 10,200 | 5,814 | 0.57 | 3.46 |
| 30 | 16 | 8,900 | 8,900 | 1.00 | 2.81 | 8,500 | 8,500 | 1.00 | 3.02 | 8,100 | 8,100 | 1.00 | 3.27 |
| 30 | 18 | 9,600 | 8,544 | 0.89 | 2.89 | 9,300 | 8,277 | 0.89 | 3.11 | 8,700 | 7,743 | 0.89 | 3.34 |
| 30 | 20 | 10,400 | 8,008 | 0.77 | 2.96 | 10,000 | 7,700 | 0.77 | 3.16 | 9,400 | 7,238 | 0.77 | 3.40 |
| 30 | 22 | 11,200 | 7,280 | 0.65 | 3.02 | 10,800 | 7,020 | 0.65 | 3.25 | 10,200 | 6,630 | 0.65 | 3.46 |
| 32 | 16 | 8,900 | 8,900 | 1.00 | 2.81 | 8,500 | 8,500 | 1.00 | 3.02 | 8,100 | 8,100 | 1.00 | 3.27 |
| 32 | 18 | 9,600 | 9,312 | 0.97 | 2.89 | 9,300 | 9,021 | 0.97 | 3.11 | 8,700 | 8,439 | 0.97 | 3.34 |
| 32 | 20 | 10,400 | 8,840 | 0.85 | 2.96 | 10,000 | 8,500 | 0.85 | 3.16 | 9,400 | 7,990 | 0.85 | 3.40 |
| 32 | 22 | 11,200 | 8,176 | 0.73 | 3.02 | 10,800 | 7,884 | 0.73 | 3.25 | 10,200 | 7,446 | 0.73 | 3.46 |
| 34 | 16 | 8,900 | 8,900 | 1.00 | 2.81 | 8,500 | 8,500 | 1.00 | 3.02 | 8,100 | 8,100 | 1.00 | 3.27 |
| 34 | 18 | 9,600 | 9,600 | 1.00 | 2.89 | 9,300 | 9,300 | 1.00 | 3.11 | 8,700 | 8,700 | 1.00 | 3.34 |
| 34 | 20 | 10,400 | 9,672 | 0.93 | 2.96 | 10,000 | 9,300 | 0.93 | 3.16 | 9,400 | 8,742 | 0.93 | 3.40 |
| 34 | 22 | 11,200 | 9,072 | 0.81 | 3.02 | 10,800 | 8,748 | 0.81 | 3.25 | 10,200 | 8,262 | 0.81 | 3.46 |

CA : Capacity (W)
P.C. : Power consumption (kW)
SHC(W) :Sensible heat capacity
SHF : Sensible heat factor

**COOLING CAPACITY(7)**

**PKA-RP2.5FAL / PUH-P2.5VGAA**

**PUH-P2.5VGAA.UK** **PUH-P2.5YGAA.UK**

**PUH-P2.5VGAA$_1$.UK** **PUH-P2.5YGAA$_1$.UK**

**PU-P2.5VGAA**

**PU-P2.5VGAA.UK** **PU-P2.5YGAA.UK**

**PU-P2.5VGAA$_1$.UK** **PU-P2.5YGAA$_1$.UK**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | | | 25 | | | | 30 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 6,386 | 4,470 | 0.70 | 2.12 | 6,192 | 4,334 | 0.70 | 2.24 | 5,999 | 4,199 | 0.70 | 2.37 |
| 20 | 18 | 6,837 | 3,965 | 0.58 | 2.16 | 6,644 | 3,853 | 0.58 | 2.28 | 6,418 | 3,722 | 0.58 | 2.44 |
| 20 | 20 | 7,353 | 3,382 | 0.46 | 2.23 | 7,192 | 3,308 | 0.46 | 2.33 | 6,998 | 3,219 | 0.46 | 2.49 |
| 22 | 16 | 6,386 | 4,981 | 0.78 | 2.12 | 6,192 | 4,830 | 0.78 | 2.24 | 5,999 | 4,679 | 0.78 | 2.37 |
| 22 | 18 | 6,837 | 4,512 | 0.66 | 2.16 | 6,644 | 4,385 | 0.66 | 2.28 | 6,418 | 4,236 | 0.66 | 2.44 |
| 22 | 20 | 7,353 | 3,971 | 0.54 | 2.23 | 7,192 | 3,884 | 0.54 | 2.33 | 6,998 | 3,779 | 0.54 | 2.49 |
| 24 | 16 | 6,386 | 5,492 | 0.86 | 2.12 | 6,192 | 5,325 | 0.86 | 2.24 | 5,999 | 5,159 | 0.86 | 2.37 |
| 24 | 18 | 6,837 | 5,059 | 0.74 | 2.16 | 6,644 | 4,916 | 0.74 | 2.28 | 6,418 | 4,749 | 0.74 | 2.44 |
| 24 | 20 | 7,353 | 4,559 | 0.62 | 2.23 | 7,192 | 4,459 | 0.62 | 2.33 | 6,998 | 4,339 | 0.62 | 2.49 |
| 24 | 22 | 7,837 | 3,918 | 0.50 | 2.28 | 7,676 | 3,838 | 0.50 | 2.41 | 7,482 | 3,741 | 0.50 | 2.57 |
| 26 | 16 | 6,386 | 6,002 | 0.94 | 2.12 | 6,192 | 5,820 | 0.94 | 2.24 | 5,999 | 5,639 | 0.94 | 2.37 |
| 26 | 18 | 6,837 | 5,606 | 0.82 | 2.16 | 6,644 | 5,448 | 0.82 | 2.28 | 6,418 | 5,263 | 0.82 | 2.44 |
| 26 | 20 | 7,353 | 5,147 | 0.70 | 2.23 | 7,192 | 5,034 | 0.70 | 2.33 | 6,998 | 4,899 | 0.70 | 2.49 |
| 26 | 22 | 7,837 | 4,545 | 0.58 | 2.28 | 7,676 | 4,452 | 0.58 | 2.41 | 7,482 | 4,340 | 0.58 | 2.57 |
| 27 | 16 | 6,386 | 6,258 | 0.98 | 2.12 | 6,192 | 6,068 | 0.98 | 2.24 | 5,999 | 5,879 | 0.98 | 2.37 |
| 27 | 18 | 6,837 | 5,880 | 0.86 | 2.16 | 6,644 | 5,713 | 0.86 | 2.28 | 6,418 | 5,519 | 0.86 | 2.44 |
| 27 | 20 | 7,353 | 5,441 | 0.74 | 2.23 | 7,192 | 5,322 | 0.74 | 2.33 | 6,998 | 5,179 | 0.74 | 2.49 |
| 27 | 22 | 7,837 | 4,859 | 0.62 | 2.28 | 7,676 | 4,759 | 0.62 | 2.41 | 7,482 | 4,639 | 0.62 | 2.57 |
| 28 | 16 | 6,386 | 6,386 | 1.00 | 2.12 | 6,192 | 6,192 | 1.00 | 2.24 | 5,999 | 5,999 | 1.00 | 2.37 |
| 28 | 18 | 6,837 | 6,153 | 0.90 | 2.16 | 6,644 | 5,979 | 0.90 | 2.28 | 6,418 | 5,776 | 0.90 | 2.44 |
| 28 | 20 | 7,353 | 5,735 | 0.78 | 2.23 | 7,192 | 5,610 | 0.78 | 2.33 | 6,998 | 5,459 | 0.78 | 2.49 |
| 28 | 22 | 7,837 | 5,172 | 0.66 | 2.28 | 7,676 | 5,066 | 0.66 | 2.41 | 7,482 | 4,938 | 0.66 | 2.57 |
| 30 | 16 | 6,386 | 6,386 | 1.00 | 2.12 | 6,192 | 6,192 | 1.00 | 2.24 | 5,999 | 5,999 | 1.00 | 2.37 |
| 30 | 18 | 6,837 | 6,700 | 0.98 | 2.16 | 6,644 | 6,511 | 0.98 | 2.28 | 6,418 | 6,289 | 0.98 | 2.44 |
| 30 | 20 | 7,353 | 6,324 | 0.86 | 2.23 | 7,192 | 6,185 | 0.86 | 2.33 | 6,998 | 6,018 | 0.86 | 2.49 |
| 30 | 22 | 7,837 | 5,799 | 0.74 | 2.28 | 7,676 | 5,680 | 0.74 | 2.41 | 7,482 | 5,537 | 0.74 | 2.57 |
| 32 | 16 | 6,386 | 6,386 | 1.00 | 2.12 | 6,192 | 6,192 | 1.00 | 2.24 | 5,999 | 5,999 | 1.00 | 2.37 |
| 32 | 18 | 6,837 | 6,837 | 1.00 | 2.16 | 6,644 | 6,644 | 1.00 | 2.28 | 6,418 | 6,418 | 1.00 | 2.44 |
| 32 | 20 | 7,353 | 6,912 | 0.94 | 2.23 | 7,192 | 6,760 | 0.94 | 2.33 | 6,998 | 6,578 | 0.94 | 2.49 |
| 32 | 22 | 7,837 | 6,426 | 0.82 | 2.28 | 7,676 | 6,294 | 0.82 | 2.41 | 7,482 | 6,135 | 0.82 | 2.57 |
| 34 | 16 | 6,386 | 6,386 | 1.00 | 2.12 | 6,192 | 6,192 | 1.00 | 2.24 | 5,999 | 5,999 | 1.00 | 2.37 |
| 34 | 18 | 6,837 | 6,837 | 1.00 | 2.16 | 6,644 | 6,644 | 1.00 | 2.28 | 6,418 | 6,418 | 1.00 | 2.44 |
| 34 | 20 | 7,353 | 7,353 | 1.00 | 2.23 | 7,192 | 7,192 | 1.00 | 2.33 | 6,998 | 6,998 | 1.00 | 2.49 |
| 34 | 22 | 7,837 | 7,053 | 0.90 | 2.28 | 7,676 | 6,908 | 0.90 | 2.41 | 7,482 | 6,734 | 0.90 | 2.57 |

CA : Capacity (W) SHC(W) :Sensible heat capacity

P.C. : Power consumption (kW) SHF : Sensible heat factor

**COOLING CAPACITY(8)**

**PKA-RP2.5FAL / PUH-P2.5VGAA**

**PUH-P2.5VGAA.UK** **PUH-P2.5YGAA.UK**

**PUH-P2.5VGAA$_1$.UK** **PUH-P2.5YGAA$_1$.UK**

**PU-P2.5VGAA**

**PU-P2.5VGAA.UK** **PU-P2.5YGAA.UK**

**PU-P2.5VGAA$_1$.UK** **PU-P2.5YGAA$_1$.UK**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 35 | | | | 40 | | | | 45 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 5,741 | 4,018 | 0.70 | 2.54 | 5,483 | 3,838 | 0.70 | 2.73 | 5,225 | 3,657 | 0.70 | 2.95 |
| 20 | 18 | 6,192 | 3,591 | 0.58 | 2.61 | 5,999 | 3,479 | 0.58 | 2.81 | 5,612 | 3,255 | 0.58 | 3.02 |
| 20 | 20 | 6,708 | 3,086 | 0.46 | 2.68 | 6,450 | 2,967 | 0.46 | 2.86 | 6,063 | 2,789 | 0.46 | 3.07 |
| 22 | 16 | 5,741 | 4,478 | 0.78 | 2.54 | 5,483 | 4,276 | 0.78 | 2.73 | 5,225 | 4,075 | 0.78 | 2.95 |
| 22 | 18 | 6,192 | 4,087 | 0.66 | 2.61 | 5,999 | 3,959 | 0.66 | 2.81 | 5,612 | 3,704 | 0.66 | 3.02 |
| 22 | 20 | 6,708 | 3,622 | 0.54 | 2.68 | 6,450 | 3,483 | 0.54 | 2.86 | 6,063 | 3,274 | 0.54 | 3.07 |
| 24 | 16 | 5,741 | 4,937 | 0.86 | 2.54 | 5,483 | 4,715 | 0.86 | 2.73 | 5,225 | 4,493 | 0.86 | 2.95 |
| 24 | 18 | 6,192 | 4,582 | 0.74 | 2.61 | 5,999 | 4,439 | 0.74 | 2.81 | 5,612 | 4,153 | 0.74 | 3.02 |
| 24 | 20 | 6,708 | 4,159 | 0.62 | 2.68 | 6,450 | 3,999 | 0.62 | 2.86 | 6,063 | 3,759 | 0.62 | 3.07 |
| 24 | 22 | 7,224 | 3,612 | 0.50 | 2.73 | 6,966 | 3,483 | 0.50 | 2.94 | 6,579 | 3,290 | 0.50 | 3.13 |
| 26 | 16 | 5,741 | 5,396 | 0.94 | 2.54 | 5,483 | 5,154 | 0.94 | 2.73 | 5,225 | 4,911 | 0.94 | 2.95 |
| 26 | 18 | 6,192 | 5,077 | 0.82 | 2.61 | 5,999 | 4,919 | 0.82 | 2.81 | 5,612 | 4,601 | 0.82 | 3.02 |
| 26 | 20 | 6,708 | 4,696 | 0.70 | 2.68 | 6,450 | 4,515 | 0.70 | 2.86 | 6,063 | 4,244 | 0.70 | 3.07 |
| 26 | 22 | 7,224 | 4,190 | 0.58 | 2.73 | 6,966 | 4,040 | 0.58 | 2.94 | 6,579 | 3,816 | 0.58 | 3.13 |
| 27 | 16 | 5,741 | 5,626 | 0.98 | 2.54 | 5,483 | 5,373 | 0.98 | 2.73 | 5,225 | 5,120 | 0.98 | 2.95 |
| 27 | 18 | 6,192 | 5,325 | 0.86 | 2.61 | 5,999 | 5,159 | 0.86 | 2.81 | 5,612 | 4,826 | 0.86 | 3.02 |
| 27 | 20 | 6,708 | 4,964 | 0.74 | 2.68 | 6,450 | 4,773 | 0.74 | 2.86 | 6,063 | 4,487 | 0.74 | 3.07 |
| 27 | 22 | 7,224 | 4,479 | 0.62 | 2.73 | 6,966 | 4,319 | 0.62 | 2.94 | 6,579 | 4,079 | 0.62 | 3.13 |
| 28 | 16 | 5,741 | 5,741 | 1.00 | 2.54 | 5,483 | 5,483 | 1.00 | 2.73 | 5,225 | 5,225 | 1.00 | 2.95 |
| 28 | 18 | 6,192 | 5,573 | 0.90 | 2.61 | 5,999 | 5,399 | 0.90 | 2.81 | 5,612 | 5,050 | 0.90 | 3.02 |
| 28 | 20 | 6,708 | 5,232 | 0.78 | 2.68 | 6,450 | 5,031 | 0.78 | 2.86 | 6,063 | 4,729 | 0.78 | 3.07 |
| 28 | 22 | 7,224 | 4,768 | 0.66 | 2.73 | 6,966 | 4,598 | 0.66 | 2.94 | 6,579 | 4,342 | 0.66 | 3.13 |
| 30 | 16 | 5,741 | 5,741 | 1.00 | 2.54 | 5,483 | 5,483 | 1.00 | 2.73 | 5,225 | 5,225 | 1.00 | 2.95 |
| 30 | 18 | 6,192 | 6,068 | 0.98 | 2.61 | 5,999 | 5,879 | 0.98 | 2.81 | 5,612 | 5,499 | 0.98 | 3.02 |
| 30 | 20 | 6,708 | 5,769 | 0.86 | 2.68 | 6,450 | 5,547 | 0.86 | 2.86 | 6,063 | 5,214 | 0.86 | 3.07 |
| 30 | 22 | 7,224 | 5,346 | 0.74 | 2.73 | 6,966 | 5,155 | 0.74 | 2.94 | 6,579 | 4,868 | 0.74 | 3.13 |
| 32 | 16 | 5,741 | 5,741 | 1.00 | 2.54 | 5,483 | 5,483 | 1.00 | 2.73 | 5,225 | 5,225 | 1.00 | 2.95 |
| 32 | 18 | 6,192 | 6,192 | 1.00 | 2.61 | 5,999 | 5,999 | 1.00 | 2.81 | 5,612 | 5,612 | 1.00 | 3.02 |
| 32 | 20 | 6,708 | 6,306 | 0.94 | 2.68 | 6,450 | 6,063 | 0.94 | 2.86 | 6,063 | 5,699 | 0.94 | 3.07 |
| 32 | 22 | 7,224 | 5,924 | 0.82 | 2.73 | 6,966 | 5,712 | 0.82 | 2.94 | 6,579 | 5,395 | 0.82 | 3.13 |
| 34 | 16 | 5,741 | 5,741 | 1.00 | 2.54 | 5,483 | 5,483 | 1.00 | 2.73 | 5,225 | 5,225 | 1.00 | 2.95 |
| 34 | 18 | 6,192 | 6,192 | 1.00 | 2.61 | 5,999 | 5,999 | 1.00 | 2.81 | 5,612 | 5,612 | 1.00 | 3.02 |
| 34 | 20 | 6,708 | 6,708 | 1.00 | 2.68 | 6,450 | 6,450 | 1.00 | 2.86 | 6,063 | 6,063 | 1.00 | 3.07 |
| 34 | 22 | 7,224 | 6,502 | 0.90 | 2.73 | 6,966 | 6,269 | 0.90 | 2.94 | 6,579 | 5,921 | 0.90 | 3.13 |

CA : Capacity (W) SHC(W) :Sensible heat capacity

P.C. : Power consumption (kW) SHF : Sensible heat factor

**COOLING CAPACITY(9)**

**PKA-RP3FAL / PUH-P3VGAA PUH-P3YGAA**
**PUH-P3VGAA.UK PUH-P3YGAA.UK**
**PUH-P3VGAA$_1$.UK PUH-P3YGAA$_1$.UK**
**PU-P3VGAA PU-P3YGAA**
**PU-P3VGAA.UK PU-P3YGAA.UK**
**PU-P3VGAA$_1$.UK PU-P3YGAA$_1$.UK**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | | | 25 | | | | 30 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 7,772 | 4,974 | 0.64 | 2.74 | 7,536 | 4,823 | 0.64 | 2.90 | 7,301 | 4,672 | 0.64 | 3.07 |
| 20 | 18 | 8,321 | 4,327 | 0.52 | 2.80 | 8,086 | 4,204 | 0.52 | 2.95 | 7,811 | 4,062 | 0.52 | 3.16 |
| 20 | 20 | 8,949 | 3,580 | 0.40 | 2.88 | 8,753 | 3,501 | 0.40 | 3.02 | 8,517 | 3,407 | 0.40 | 3.22 |
| 22 | 16 | 7,772 | 5,595 | 0.72 | 2.74 | 7,536 | 5,426 | 0.72 | 2.90 | 7,301 | 5,256 | 0.72 | 3.07 |
| 22 | 18 | 8,321 | 4,993 | 0.60 | 2.80 | 8,086 | 4,851 | 0.60 | 2.95 | 7,811 | 4,686 | 0.60 | 3.16 |
| 22 | 20 | 8,949 | 4,296 | 0.48 | 2.88 | 8,753 | 4,201 | 0.48 | 3.02 | 8,517 | 4,088 | 0.48 | 3.22 |
| 24 | 16 | 7,772 | 6,217 | 0.80 | 2.74 | 7,536 | 6,029 | 0.80 | 2.90 | 7,301 | 5,840 | 0.80 | 3.07 |
| 24 | 18 | 8,321 | 5,658 | 0.68 | 2.80 | 8,086 | 5,498 | 0.68 | 2.95 | 7,811 | 5,311 | 0.68 | 3.16 |
| 24 | 20 | 8,949 | 5,011 | 0.56 | 2.88 | 8,753 | 4,902 | 0.56 | 3.02 | 8,517 | 4,770 | 0.56 | 3.22 |
| 24 | 22 | 9,538 | 4,197 | 0.44 | 2.95 | 9,342 | 4,110 | 0.44 | 3.12 | 9,106 | 4,007 | 0.44 | 3.33 |
| 26 | 16 | 7,772 | 6,839 | 0.88 | 2.74 | 7,536 | 6,632 | 0.88 | 2.90 | 7,301 | 6,424 | 0.88 | 3.07 |
| 26 | 18 | 8,321 | 6,324 | 0.76 | 2.80 | 8,086 | 6,145 | 0.76 | 2.95 | 7,811 | 5,936 | 0.76 | 3.16 |
| 26 | 20 | 8,949 | 5,727 | 0.64 | 2.88 | 8,753 | 5,602 | 0.64 | 3.02 | 8,517 | 5,451 | 0.64 | 3.22 |
| 26 | 22 | 9,538 | 4,960 | 0.52 | 2.95 | 9,342 | 4,858 | 0.52 | 3.12 | 9,106 | 4,735 | 0.52 | 3.33 |
| 27 | 16 | 7,772 | 7,150 | 0.92 | 2.74 | 7,536 | 6,933 | 0.92 | 2.90 | 7,301 | 6,716 | 0.92 | 3.07 |
| 27 | 18 | 8,321 | 6,657 | 0.80 | 2.80 | 8,086 | 6,468 | 0.80 | 2.95 | 7,811 | 6,249 | 0.80 | 3.16 |
| 27 | 20 | 8,949 | 6,085 | 0.68 | 2.88 | 8,753 | 5,952 | 0.68 | 3.02 | 8,517 | 5,792 | 0.68 | 3.22 |
| 27 | 22 | 9,538 | 5,341 | 0.56 | 2.95 | 9,342 | 5,231 | 0.56 | 3.12 | 9,106 | 5,099 | 0.56 | 3.33 |
| 28 | 16 | 7,772 | 7,461 | 0.96 | 2.74 | 7,536 | 7,235 | 0.96 | 2.90 | 7,301 | 7,008 | 0.96 | 3.07 |
| 28 | 18 | 8,321 | 6,990 | 0.84 | 2.80 | 8,086 | 6,792 | 0.84 | 2.95 | 7,811 | 6,561 | 0.84 | 3.16 |
| 28 | 20 | 8,949 | 6,443 | 0.72 | 2.88 | 8,753 | 6,302 | 0.72 | 3.02 | 8,517 | 6,132 | 0.72 | 3.22 |
| 28 | 22 | 9,538 | 5,723 | 0.60 | 2.95 | 9,342 | 5,605 | 0.60 | 3.12 | 9,106 | 5,464 | 0.60 | 3.33 |
| 30 | 16 | 7,772 | 7,772 | 1.00 | 2.74 | 7,536 | 7,536 | 1.00 | 2.90 | 7,301 | 7,301 | 1.00 | 3.07 |
| 30 | 18 | 8,321 | 7,655 | 0.92 | 2.80 | 8,086 | 7,439 | 0.92 | 2.95 | 7,811 | 7,186 | 0.92 | 3.16 |
| 30 | 20 | 8,949 | 7,159 | 0.80 | 2.88 | 8,753 | 7,002 | 0.80 | 3.02 | 8,517 | 6,814 | 0.80 | 3.22 |
| 30 | 22 | 9,538 | 6,486 | 0.68 | 2.95 | 9,342 | 6,352 | 0.68 | 3.12 | 9,106 | 6,192 | 0.68 | 3.33 |
| 32 | 16 | 7,772 | 7,772 | 1.00 | 2.74 | 7,536 | 7,536 | 1.00 | 2.90 | 7,301 | 7,301 | 1.00 | 3.07 |
| 32 | 18 | 8,321 | 8,321 | 1.00 | 2.80 | 8,086 | 8,086 | 1.00 | 2.95 | 7,811 | 7,811 | 1.00 | 3.16 |
| 32 | 20 | 8,949 | 7,875 | 0.88 | 2.88 | 8,753 | 7,702 | 0.88 | 3.02 | 8,517 | 7,495 | 0.88 | 3.22 |
| 32 | 22 | 9,538 | 7,249 | 0.76 | 2.95 | 9,342 | 7,100 | 0.76 | 3.12 | 9,106 | 6,921 | 0.76 | 3.33 |
| 34 | 16 | 7,772 | 7,772 | 1.00 | 2.74 | 7,536 | 7,536 | 1.00 | 2.90 | 7,301 | 7,301 | 1.00 | 3.07 |
| 34 | 18 | 8,321 | 8,321 | 1.00 | 2.80 | 8,086 | 8,086 | 1.00 | 2.95 | 7,811 | 7,811 | 1.00 | 3.16 |
| 34 | 20 | 8,949 | 8,591 | 0.96 | 2.88 | 8,753 | 8,403 | 0.96 | 3.02 | 8,517 | 8,177 | 0.96 | 3.22 |
| 34 | 22 | 9,538 | 8,012 | 0.84 | 2.95 | 9,342 | 7,847 | 0.84 | 3.12 | 9,106 | 7,649 | 0.84 | 3.33 |

CA : Capacity (W) SHC(W) :Sensible heat capacity
P.C. : Power consumption (kW) SHF : Sensible heat factor

**COOLING CAPACITY(10)**

**PKA-RP3FAL / PUH-P3VGAA PUH-P3YGAA**
**PUH-P3VGAA.UK PUH-P3YGAA.UK**
**PUH-P3VGAA$_1$.UK PUH-P3YGAA$_1$.UK**
**PU-P3VGAA PU-P3YGAA**
**PU-P3VGAA.UK PU-P3YGAA.UK**
**PU-P3VGAA$_1$.UK PU-P3YGAA$_1$.UK**

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 35 | | | | 40 | | | | 45 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 6,987 | 4,471 | 0.64 | 3.29 | 6,673 | 4,270 | 0.64 | 3.53 | 6,359 | 4,069 | 0.64 | 3.82 |
| 20 | 18 | 7,536 | 3,919 | 0.52 | 3.38 | 7,301 | 3,796 | 0.52 | 3.64 | 6,830 | 3,551 | 0.52 | 3.91 |
| 20 | 20 | 8,164 | 3,266 | 0.40 | 3.46 | 7,850 | 3,140 | 0.40 | 3.70 | 7,379 | 2,952 | 0.40 | 3.98 |
| 22 | 16 | 6,987 | 5,030 | 0.72 | 3.29 | 6,673 | 4,804 | 0.72 | 3.53 | 6,359 | 4,578 | 0.72 | 3.82 |
| 22 | 18 | 7,536 | 4,522 | 0.60 | 3.38 | 7,301 | 4,380 | 0.60 | 3.64 | 6,830 | 4,098 | 0.60 | 3.91 |
| 22 | 20 | 8,164 | 3,919 | 0.48 | 3.46 | 7,850 | 3,768 | 0.48 | 3.70 | 7,379 | 3,542 | 0.48 | 3.98 |
| 24 | 16 | 6,987 | 5,589 | 0.80 | 3.29 | 6,673 | 5,338 | 0.80 | 3.53 | 6,359 | 5,087 | 0.80 | 3.82 |
| 24 | 18 | 7,536 | 5,124 | 0.68 | 3.38 | 7,301 | 4,964 | 0.68 | 3.64 | 6,830 | 4,644 | 0.68 | 3.91 |
| 24 | 20 | 8,164 | 4,572 | 0.56 | 3.46 | 7,850 | 4,396 | 0.56 | 3.70 | 7,379 | 4,132 | 0.56 | 3.98 |
| 24 | 22 | 8,792 | 3,868 | 0.44 | 3.53 | 8,478 | 3,730 | 0.44 | 3.81 | 8,007 | 3,523 | 0.44 | 4.05 |
| 26 | 16 | 6,987 | 6,148 | 0.88 | 3.29 | 6,673 | 5,872 | 0.88 | 3.53 | 6,359 | 5,595 | 0.88 | 3.82 |
| 26 | 18 | 7,536 | 5,727 | 0.76 | 3.38 | 7,301 | 5,548 | 0.76 | 3.64 | 6,830 | 5,190 | 0.76 | 3.91 |
| 26 | 20 | 8,164 | 5,225 | 0.64 | 3.46 | 7,850 | 5,024 | 0.64 | 3.70 | 7,379 | 4,723 | 0.64 | 3.98 |
| 26 | 22 | 8,792 | 4,572 | 0.52 | 3.53 | 8,478 | 4,409 | 0.52 | 3.81 | 8,007 | 4,164 | 0.52 | 4.05 |
| 27 | 16 | 6,987 | 6,428 | 0.92 | 3.29 | 6,673 | 6,139 | 0.92 | 3.53 | 6,359 | 5,850 | 0.92 | 3.82 |
| 27 | 18 | 7,536 | 6,029 | 0.80 | 3.38 | 7,301 | 5,840 | 0.80 | 3.64 | 6,830 | 5,464 | 0.80 | 3.91 |
| 27 | 20 | 8,164 | 5,552 | 0.68 | 3.46 | 7,850 | 5,338 | 0.68 | 3.70 | 7,379 | 5,018 | 0.68 | 3.98 |
| 27 | 22 | 8,792 | 4,924 | 0.56 | 3.53 | 8,478 | 4,748 | 0.56 | 3.81 | 8,007 | 4,484 | 0.56 | 4.05 |
| 28 | 16 | 6,987 | 6,707 | 0.96 | 3.29 | 6,673 | 6,406 | 0.96 | 3.53 | 6,359 | 6,104 | 0.96 | 3.82 |
| 28 | 18 | 7,536 | 6,330 | 0.84 | 3.38 | 7,301 | 6,132 | 0.84 | 3.64 | 6,830 | 5,737 | 0.84 | 3.91 |
| 28 | 20 | 8,164 | 5,878 | 0.72 | 3.46 | 7,850 | 5,652 | 0.72 | 3.70 | 7,379 | 5,313 | 0.72 | 3.98 |
| 28 | 22 | 8,792 | 5,275 | 0.60 | 3.53 | 8,478 | 5,087 | 0.60 | 3.81 | 8,007 | 4,804 | 0.60 | 4.05 |
| 30 | 16 | 6,987 | 6,987 | 1.00 | 3.29 | 6,673 | 6,673 | 1.00 | 3.53 | 6,359 | 6,359 | 1.00 | 3.82 |
| 30 | 18 | 7,536 | 6,933 | 0.92 | 3.38 | 7,301 | 6,716 | 0.92 | 3.64 | 6,830 | 6,283 | 0.92 | 3.91 |
| 30 | 20 | 8,164 | 6,531 | 0.80 | 3.46 | 7,850 | 6,280 | 0.80 | 3.70 | 7,379 | 5,903 | 0.80 | 3.98 |
| 30 | 22 | 8,792 | 5,979 | 0.68 | 3.53 | 8,478 | 5,765 | 0.68 | 3.81 | 8,007 | 5,445 | 0.68 | 4.05 |
| 32 | 16 | 6,987 | 6,987 | 1.00 | 3.29 | 6,673 | 6,673 | 1.00 | 3.53 | 6,359 | 6,359 | 1.00 | 3.82 |
| 32 | 18 | 7,536 | 7,536 | 1.00 | 3.38 | 7,301 | 7,301 | 1.00 | 3.64 | 6,830 | 6,830 | 1.00 | 3.91 |
| 32 | 20 | 8,164 | 7,184 | 0.88 | 3.46 | 7,850 | 6,908 | 0.88 | 3.70 | 7,379 | 6,494 | 0.88 | 3.98 |
| 32 | 22 | 8,792 | 6,682 | 0.76 | 3.53 | 8,478 | 6,443 | 0.76 | 3.81 | 8,007 | 6,085 | 0.76 | 4.05 |
| 34 | 16 | 6,987 | 6,987 | 1.00 | 3.29 | 6,673 | 6,673 | 1.00 | 3.53 | 6,359 | 6,359 | 1.00 | 3.82 |
| 34 | 18 | 7,536 | 7,536 | 1.00 | 3.38 | 7,301 | 7,301 | 1.00 | 3.64 | 6,830 | 6,830 | 1.00 | 3.91 |
| 34 | 20 | 8,164 | 7,837 | 0.96 | 3.46 | 7,850 | 7,536 | 0.96 | 3.70 | 7,379 | 7,084 | 0.96 | 3.98 |
| 34 | 22 | 8,792 | 7,385 | 0.84 | 3.53 | 8,478 | 7,122 | 0.84 | 3.81 | 8,007 | 6,726 | 0.84 | 4.05 |

CA : Capacity (W) SHC(W) :Sensible heat capacity
P.C. : Power consumption (kW) SHF : Sensible heat factor

**COOLING CAPACITY(11)**

**PKA-RP4FAL /**

| | |
|---|---|
| | **PUH-P4YGAA** |
| **PUH-P4VGAA.UK** | **PUH-P4YGAA.UK** |
| **PUH-P4VGAA$_1$.UK** | **PUH-P4YGAA$_1$.UK** |
| | **PU-P4YGAA** |
| **PU-P4VGAA.UK** | **PU-P4YGAA.UK** |
| **PU-P4VGAA$_1$.UK** | **PU-P4YGAA$_1$.UK** |

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20 | | | | 25 | | | | 30 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 9,306 | 6,142 | 0.66 | 2.87 | 9,024 | 5,956 | 0.66 | 3.03 | 8,742 | 5,770 | 0.66 | 3.21 |
| 20 | 18 | 9,964 | 5,381 | 0.54 | 2.93 | 9,682 | 5,228 | 0.54 | 3.09 | 9,353 | 5,051 | 0.54 | 3.30 |
| 20 | 20 | 10,716 | 4,501 | 0.42 | 3.02 | 10,481 | 4,402 | 0.42 | 3.16 | 10,199 | 4,284 | 0.42 | 3.37 |
| 22 | 16 | 9,306 | 6,886 | 0.74 | 2.87 | 9,024 | 6,678 | 0.74 | 3.03 | 8,742 | 6,469 | 0.74 | 3.21 |
| 22 | 18 | 9,964 | 6,178 | 0.62 | 2.93 | 9,682 | 6,003 | 0.62 | 3.09 | 9,353 | 5,799 | 0.62 | 3.30 |
| 22 | 20 | 10,716 | 5,358 | 0.50 | 3.02 | 10,481 | 5,241 | 0.50 | 3.16 | 10,199 | 5,100 | 0.50 | 3.37 |
| 24 | 16 | 9,306 | 7,631 | 0.82 | 2.87 | 9,024 | 7,400 | 0.82 | 3.03 | 8,742 | 7,168 | 0.82 | 3.21 |
| 24 | 18 | 9,964 | 6,975 | 0.70 | 2.93 | 9,682 | 6,777 | 0.70 | 3.09 | 9,353 | 6,547 | 0.70 | 3.30 |
| 24 | 20 | 10,716 | 6,215 | 0.58 | 3.02 | 10,481 | 6,079 | 0.58 | 3.16 | 10,199 | 5,915 | 0.58 | 3.37 |
| 24 | 22 | 11,421 | 5,254 | 0.46 | 3.09 | 11,186 | 5,146 | 0.46 | 3.27 | 10,904 | 5,016 | 0.46 | 3.48 |
| 26 | 16 | 9,306 | 8,375 | 0.90 | 2.87 | 9,024 | 8,122 | 0.90 | 3.03 | 8,742 | 7,868 | 0.90 | 3.21 |
| 26 | 18 | 9,964 | 7,772 | 0.78 | 2.93 | 9,682 | 7,552 | 0.78 | 3.09 | 9,353 | 7,295 | 0.78 | 3.30 |
| 26 | 20 | 10,716 | 7,073 | 0.66 | 3.02 | 10,481 | 6,917 | 0.66 | 3.16 | 10,199 | 6,731 | 0.66 | 3.37 |
| 26 | 22 | 11,421 | 6,167 | 0.54 | 3.09 | 11,186 | 6,040 | 0.54 | 3.27 | 10,904 | 5,888 | 0.54 | 3.48 |
| 27 | 16 | 9,306 | 8,748 | 0.94 | 2.87 | 9,024 | 8,483 | 0.94 | 3.03 | 8,742 | 8,217 | 0.94 | 3.21 |
| 27 | 18 | 9,964 | 8,170 | 0.82 | 2.93 | 9,682 | 7,939 | 0.82 | 3.09 | 9,353 | 7,669 | 0.82 | 3.30 |
| 27 | 20 | 10,716 | 7,501 | 0.70 | 3.02 | 10,481 | 7,337 | 0.70 | 3.16 | 10,199 | 7,139 | 0.70 | 3.37 |
| 27 | 22 | 11,421 | 6,624 | 0.58 | 3.09 | 11,186 | 6,488 | 0.58 | 3.27 | 10,904 | 6,324 | 0.58 | 3.48 |
| 28 | 16 | 9,306 | 9,120 | 0.98 | 2.87 | 9,024 | 8,844 | 0.98 | 3.03 | 8,742 | 8,567 | 0.98 | 3.21 |
| 28 | 18 | 9,964 | 8,569 | 0.86 | 2.93 | 9,682 | 8,327 | 0.86 | 3.09 | 9,353 | 8,044 | 0.86 | 3.30 |
| 28 | 20 | 10,716 | 7,930 | 0.74 | 3.02 | 10,481 | 7,756 | 0.74 | 3.16 | 10,199 | 7,547 | 0.74 | 3.37 |
| 28 | 22 | 11,421 | 7,081 | 0.62 | 3.09 | 11,186 | 6,935 | 0.62 | 3.27 | 10,904 | 6,760 | 0.62 | 3.48 |
| 30 | 16 | 9,306 | 9,306 | 1.00 | 2.87 | 9,024 | 9,024 | 1.00 | 3.03 | 8,742 | 8,742 | 1.00 | 3.21 |
| 30 | 18 | 9,964 | 9,366 | 0.94 | 2.93 | 9,682 | 9,101 | 0.94 | 3.09 | 9,353 | 8,792 | 0.94 | 3.30 |
| 30 | 20 | 10,716 | 8,787 | 0.82 | 3.02 | 10,481 | 8,594 | 0.82 | 3.16 | 10,199 | 8,363 | 0.82 | 3.37 |
| 30 | 22 | 11,421 | 7,995 | 0.70 | 3.09 | 11,186 | 7,830 | 0.70 | 3.27 | 10,904 | 7,633 | 0.70 | 3.48 |
| 32 | 16 | 9,306 | 9,306 | 1.00 | 2.87 | 9,024 | 9,024 | 1.00 | 3.03 | 8,742 | 8,742 | 1.00 | 3.21 |
| 32 | 18 | 9,964 | 9,964 | 1.00 | 2.93 | 9,682 | 9,682 | 1.00 | 3.09 | 9,353 | 9,353 | 1.00 | 3.30 |
| 32 | 20 | 10,716 | 9,644 | 0.90 | 3.02 | 10,481 | 9,433 | 0.90 | 3.16 | 10,199 | 9,179 | 0.90 | 3.37 |
| 32 | 22 | 11,421 | 8,908 | 0.78 | 3.09 | 11,186 | 8,725 | 0.78 | 3.27 | 10,904 | 8,505 | 0.78 | 3.48 |
| 34 | 16 | 9,306 | 9,306 | 1.00 | 2.87 | 9,024 | 9,024 | 1.00 | 3.03 | 8,742 | 8,742 | 1.00 | 3.21 |
| 34 | 18 | 9,964 | 9,964 | 1.00 | 2.93 | 9,682 | 9,682 | 1.00 | 3.09 | 9,353 | 9,353 | 1.00 | 3.30 |
| 34 | 20 | 10,716 | 10,502 | 0.98 | 3.02 | 10,481 | 10,271 | 0.98 | 3.16 | 10,199 | 9,995 | 0.98 | 3.37 |
| 34 | 22 | 11,421 | 9,822 | 0.86 | 3.09 | 11,186 | 9,620 | 0.86 | 3.27 | 10,904 | 9,377 | 0.86 | 3.48 |

CA : Capacity (W) SHC(W) :Sensible heat capacity
P.C. : Power consumption (kW) SHF : Sensible heat factor

**COOLING CAPACITY(12)**

**PKA-RP4FAL /**

| | |
|---|---|
| | **PUH-P4YGAA** |
| **PUH-P4VGAA.UK** | **PUH-P4YGAA.UK** |
| **PUH-P4VGAA$_1$.UK** | **PUH-P4YGAA$_1$.UK** |
| | **PU-P4YGAA** |
| **PU-P4VGAA.UK** | **PU-P4YGAA.UK** |
| **PU-P4VGAA$_1$.UK** | **PU-P4YGAA$_1$.UK** |

**(230V)**

| Indoor Intake air D.B.(°C) | Indoor Intake air W.B.(°C) | Outdoor intake air D.B.(°C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 35 | | | | 40 | | | | 45 | | | |
| | | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. | CA | SHC(W) | SHF | P.C. |
| 20 | 16 | 8,366 | 5,522 | 0.66 | 3.45 | 7,990 | 5,273 | 0.66 | 3.70 | 7,614 | 5,025 | 0.66 | 4.00 |
| 20 | 18 | 9,024 | 4,873 | 0.54 | 3.54 | 8,742 | 4,721 | 0.54 | 3.81 | 8,178 | 4,416 | 0.54 | 4.09 |
| 20 | 20 | 9,776 | 4,106 | 0.42 | 3.63 | 9,400 | 3,948 | 0.42 | 3.88 | 8,836 | 3,711 | 0.42 | 4.16 |
| 22 | 16 | 8,366 | 6,191 | 0.74 | 3.45 | 7,990 | 5,913 | 0.74 | 3.70 | 7,614 | 5,634 | 0.74 | 4.00 |
| 22 | 18 | 9,024 | 5,595 | 0.62 | 3.54 | 8,742 | 5,420 | 0.62 | 3.81 | 8,178 | 5,070 | 0.62 | 4.09 |
| 22 | 20 | 9,776 | 4,888 | 0.50 | 3.63 | 9,400 | 4,700 | 0.50 | 3.88 | 8,836 | 4,418 | 0.50 | 4.16 |
| 24 | 16 | 8,366 | 6,860 | 0.82 | 3.45 | 7,990 | 6,552 | 0.82 | 3.70 | 7,614 | 6,243 | 0.82 | 4.00 |
| 24 | 18 | 9,024 | 6,317 | 0.70 | 3.54 | 8,742 | 6,119 | 0.70 | 3.81 | 8,178 | 5,725 | 0.70 | 4.09 |
| 24 | 20 | 9,776 | 5,670 | 0.58 | 3.63 | 9,400 | 5,452 | 0.58 | 3.88 | 8,836 | 5,125 | 0.58 | 4.16 |
| 24 | 22 | 10,528 | 4,843 | 0.46 | 3.70 | 10,152 | 4,670 | 0.46 | 3.98 | 9,588 | 4,410 | 0.46 | 4.24 |
| 26 | 16 | 8,366 | 7,529 | 0.90 | 3.45 | 7,990 | 7,191 | 0.90 | 3.70 | 7,614 | 6,853 | 0.90 | 4.00 |
| 26 | 18 | 9,024 | 7,039 | 0.78 | 3.54 | 8,742 | 6,819 | 0.78 | 3.81 | 8,178 | 6,379 | 0.78 | 4.09 |
| 26 | 20 | 9,776 | 6,452 | 0.66 | 3.63 | 9,400 | 6,204 | 0.66 | 3.88 | 8,836 | 5,832 | 0.66 | 4.16 |
| 26 | 22 | 10,528 | 5,685 | 0.54 | 3.70 | 10,152 | 5,482 | 0.54 | 3.98 | 9,588 | 5,178 | 0.54 | 4.24 |
| 27 | 16 | 8,366 | 7,864 | 0.94 | 3.45 | 7,990 | 7,511 | 0.94 | 3.70 | 7,614 | 7,157 | 0.94 | 4.00 |
| 27 | 18 | 9,024 | 7,400 | 0.82 | 3.54 | 8,742 | 7,168 | 0.82 | 3.81 | 8,178 | 6,706 | 0.82 | 4.09 |
| 27 | 20 | 9,776 | 6,843 | 0.70 | 3.63 | 9,400 | 6,580 | 0.70 | 3.88 | 8,836 | 6,185 | 0.70 | 4.16 |
| 27 | 22 | 10,528 | 6,106 | 0.58 | 3.70 | 10,152 | 5,888 | 0.58 | 3.98 | 9,588 | 5,561 | 0.58 | 4.24 |
| 28 | 16 | 8,366 | 8,199 | 0.98 | 3.45 | 7,990 | 7,830 | 0.98 | 3.70 | 7,614 | 7,462 | 0.98 | 4.00 |
| 28 | 18 | 9,024 | 7,761 | 0.86 | 3.54 | 8,742 | 7,518 | 0.86 | 3.81 | 8,178 | 7,033 | 0.86 | 4.09 |
| 28 | 20 | 9,776 | 7,234 | 0.74 | 3.63 | 9,400 | 6,956 | 0.74 | 3.88 | 8,836 | 6,539 | 0.74 | 4.16 |
| 28 | 22 | 10,528 | 6,527 | 0.62 | 3.70 | 10,152 | 6,294 | 0.62 | 3.98 | 9,588 | 5,945 | 0.62 | 4.24 |
| 30 | 16 | 8,366 | 8,366 | 1.00 | 3.45 | 7,990 | 7,990 | 1.00 | 3.70 | 7,614 | 7,614 | 1.00 | 4.00 |
| 30 | 18 | 9,024 | 8,483 | 0.94 | 3.54 | 8,742 | 8,217 | 0.94 | 3.81 | 8,178 | 7,687 | 0.94 | 4.09 |
| 30 | 20 | 9,776 | 8,016 | 0.82 | 3.63 | 9,400 | 7,708 | 0.82 | 3.88 | 8,836 | 7,246 | 0.82 | 4.16 |
| 30 | 22 | 10,528 | 7,370 | 0.70 | 3.70 | 10,152 | 7,106 | 0.70 | 3.98 | 9,588 | 6,712 | 0.70 | 4.24 |
| 32 | 16 | 8,366 | 8,366 | 1.00 | 3.45 | 7,990 | 7,990 | 1.00 | 3.70 | 7,614 | 7,614 | 1.00 | 4.00 |
| 32 | 18 | 9,024 | 9,024 | 1.00 | 3.54 | 8,742 | 8,742 | 1.00 | 3.81 | 8,178 | 8,178 | 1.00 | 4.09 |
| 32 | 20 | 9,776 | 8,798 | 0.90 | 3.63 | 9,400 | 8,460 | 0.90 | 3.88 | 8,836 | 7,952 | 0.90 | 4.16 |
| 32 | 22 | 10,528 | 8,212 | 0.78 | 3.70 | 10,152 | 7,919 | 0.78 | 3.98 | 9,588 | 7,479 | 0.78 | 4.24 |
| 34 | 16 | 8,366 | 8,366 | 1.00 | 3.45 | 7,990 | 7,990 | 1.00 | 3.70 | 7,614 | 7,614 | 1.00 | 4.00 |
| 34 | 18 | 9,024 | 9,024 | 1.00 | 3.54 | 8,742 | 8,742 | 1.00 | 3.81 | 8,178 | 8,178 | 1.00 | 4.09 |
| 34 | 20 | 9,776 | 9,580 | 0.98 | 3.63 | 9,400 | 9,212 | 0.98 | 3.88 | 8,836 | 8,659 | 0.98 | 4.16 |
| 34 | 22 | 10,528 | 9,054 | 0.86 | 3.70 | 10,152 | 8,731 | 0.86 | 3.98 | 9,588 | 8,246 | 0.86 | 4.24 |

CA : Capacity (W)
SHC(W) :Sensible heat capacity
P.C. : Power consumption (kW)
SHF : Sensible heat factor

## HEATING CAPACITY (1)

**PKA-RP•FAL / PUHZ-RP•VHA**
**PUHZ-RP•VHA1**

(230V)

| Service Ref. | Indoor intake are D.B. (˚C) | Outdoor intake air W.B. (˚C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | -10 | | -5 | | 0 | | 5 | | 10 | | 15 | |
| | | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. |
| **PKA-RP2.5FAL** | 15 | 4,445 | 1.19 | 4,830 | 1.31 | 5,390 | 1.51 | 7,070 | 1.81 | 7,980 | 2.01 | 8,890 | 2.17 |
| | 20 | 4,270 | 1.29 | 4,620 | 1.41 | 5,110 | 1.63 | 6,825 | 1.95 | 7,700 | 2.17 | 8,575 | 2.33 |
| | 25 | 4,130 | 1.37 | 4,480 | 1.53 | 4,900 | 1.77 | 6,440 | 2.07 | 7,420 | 2.32 | 8,260 | 2.50 |
| **PKA-RP3FAL** | 15 | 5,080 | 1.42 | 5,520 | 1.56 | 6,160 | 1.80 | 8,080 | 2.16 | 9,120 | 2.40 | 10,160 | 2.59 |
| | 20 | 4,880 | 1.54 | 5,280 | 1.68 | 5,840 | 1.94 | 7,800 | 2.33 | 8,800 | 2.59 | 9,800 | 2.78 |
| | 25 | 4,720 | 1.63 | 5,120 | 1.82 | 5,600 | 2.11 | 7,360 | 2.47 | 8,480 | 2.77 | 9,440 | 2.99 |
| **PKA-RP4FAL** | 15 | 7,112 | 1.92 | 7,728 | 2.11 | 8,624 | 2.44 | 11,312 | 2.93 | 12,768 | 3.25 | 14,224 | 3.51 |
| | 20 | 6,832 | 2.08 | 7,392 | 2.28 | 8,176 | 2.63 | 10,920 | 3.15 | 12,320 | 3.51 | 13,720 | 3.77 |
| | 25 | 6,608 | 2.21 | 7,168 | 2.47 | 7,840 | 2.86 | 10,304 | 3.35 | 11,872 | 3.75 | 13,216 | 4.05 |

**NOTE:** CA: Capacity (W) P.C.: Power consumption (kW)

## HEATING CAPACITY (2)

**PKA-RP•FAL / PUH-P•VGAA PUH-P•YGAA PUH-P•VGAA.UK PUH-P•YGAA.UK**
**PUH-P•VGAA1.UK PUH-P•YGAA1.UK**

(230V)

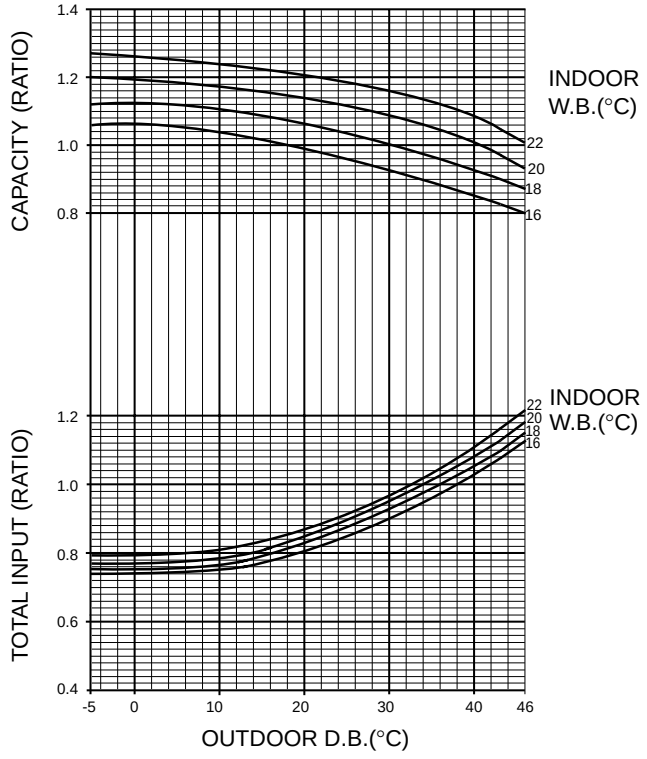
| Service Ref. | Indoor intake are D.B. (˚C) | Outdoor intake air W.B. (˚C) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | -10 | | -5 | | 0 | | 5 | | 10 | | 15 | |
| | | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. |
| **PKA-RP2.5FAL** | 15 | 4,667 | 1.55 | 5,072 | 1.71 | 5,660 | 1.97 | 7,424 | 2.37 | 8,379 | 2.63 | 9,335 | 2.84 |
| | 20 | 4,484 | 1.68 | 4,851 | 1.84 | 5,366 | 2.13 | 7,166 | 2.55 | 8,085 | 2.84 | 9,004 | 3.05 |
| | 25 | 4,337 | 1.79 | 4,704 | 2.00 | 5,145 | 2.31 | 6,762 | 2.71 | 7,791 | 3.04 | 8,673 | 3.27 |
| **PKA-RP3FAL** | 15 | 5,969 | 2.13 | 6,486 | 2.35 | 7,238 | 2.71 | 9,494 | 3.25 | 10,716 | 3.61 | 11,938 | 3.90 |
| | 20 | 5,734 | 2.31 | 6,204 | 2.53 | 6,862 | 2.92 | 9,165 | 3.50 | 10,340 | 3.90 | 11,515 | 4.19 |
| | 25 | 5,546 | 2.45 | 6,016 | 2.74 | 6,580 | 3.18 | 8,648 | 3.72 | 9,964 | 4.17 | 11,092 | 4.49 |
| **PKA-RP4FAL** | 15 | 6,858 | 2.22 | 7,452 | 2.45 | 8,316 | 2.83 | 10,908 | 3.39 | 12,312 | 3.77 | 13,716 | 4.07 |
| | 20 | 6,588 | 2.41 | 7,128 | 2.64 | 7,884 | 3.05 | 10,530 | 3.66 | 11,880 | 4.07 | 13,230 | 4.37 |
| | 25 | 6,372 | 2.56 | 6,912 | 2.87 | 7,560 | 3.32 | 9,936 | 3.88 | 11,448 | 4.35 | 12,744 | 4.69 |

**NOTE:** CA: Capacity (W) P.C.: Power consumption (kW)

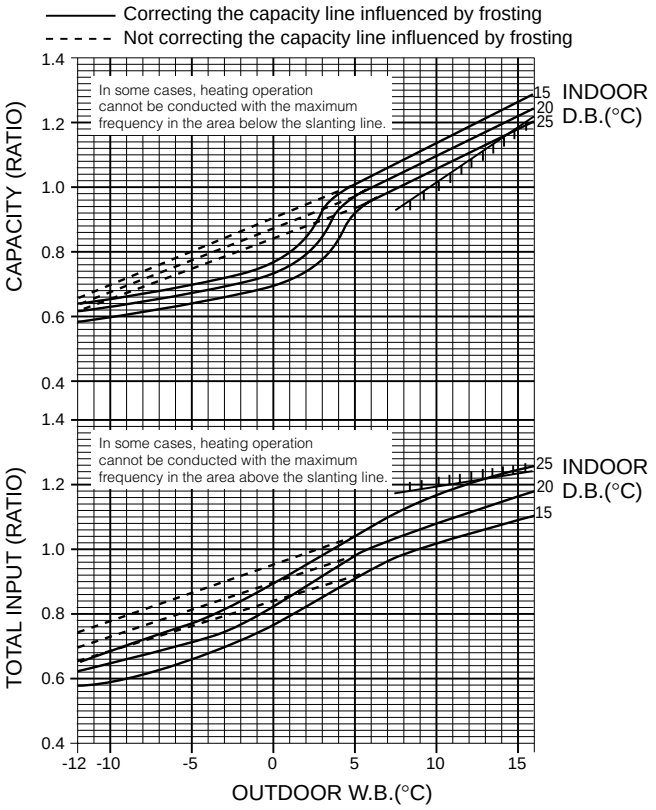
## 5-2. PERFORMANCE CURVE

**PKA-RP•FAL / PUHZ-RP•VHA**
**PUHZ-RP•VHA1**

### Cooling performance curve(50Hz)

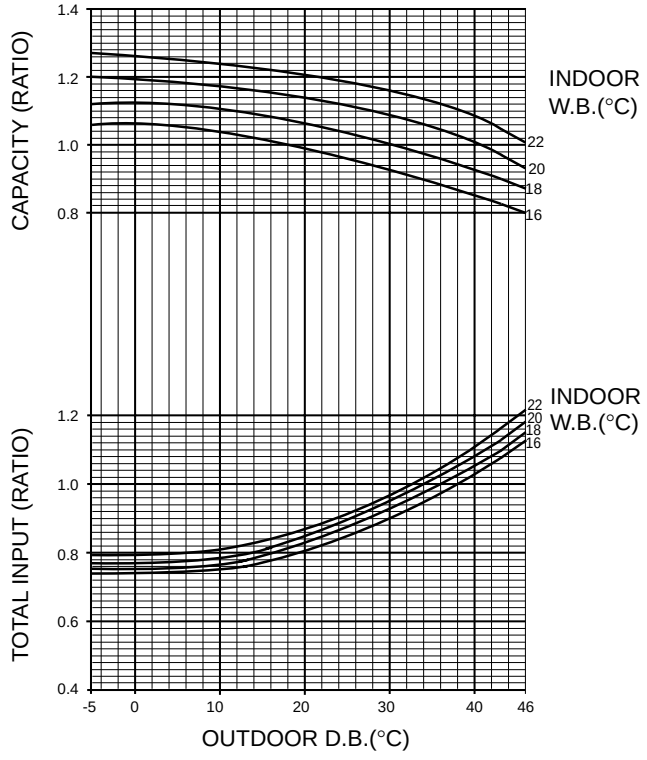



### Heating performance curve(50Hz)

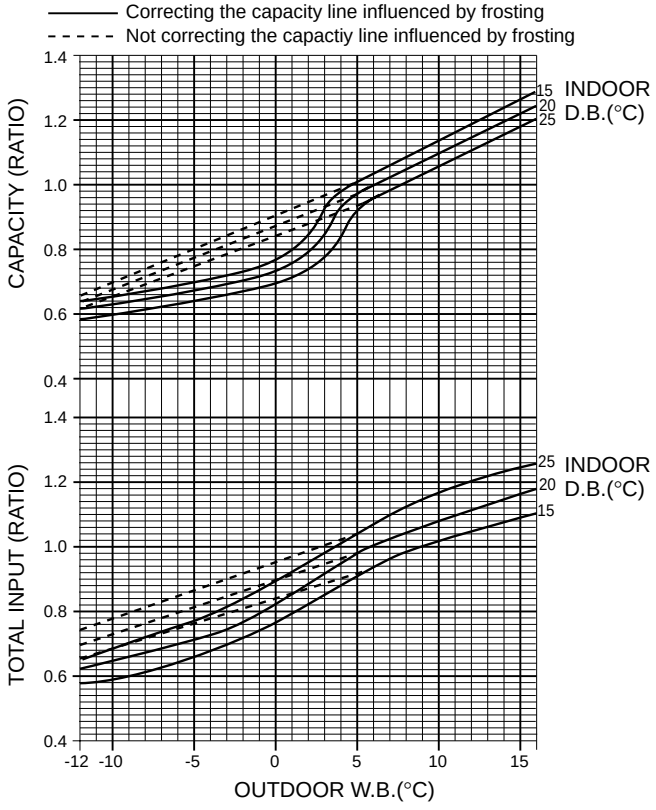



**PKA-RP•FAL / PUH-P•VGAA PUH-P•YGAA PUH-P•VGAA.UK PUH-P•YGAA.UK**
**PU-P•VGAA PU-P•YGAA PU-P•VGAA.UK PU-P•YGAA.UK**
**PUH-P•VGAA1.UK PUH-P•YGAA1.UK**
**PU-P•VGAA1.UK PU-P•YGAA1.UK**

### Cooling performance curve(50Hz)




### Heating performance curve(50Hz)



## 5-3. Correction factors

**PKA-RP•FAL / PUHZ-RP•VHA**
**PUHZ-RP•VHA1**

**Cooling capacity correction factors**

| Service Ref. | Refrigerant piping length (one way) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5m | 10m | 20m | 30m | 40m | 50m | 55m | 60m | 70m | 80m |
| **PKA-RP2.5FAL** | 1.00 | 0.992 | 0.976 | 0.962 | 0.949 | 0.936 | 0.930 | — | — | — |
| **PKA-RP3FAL** | 1.00 | 0.988 | 0.966 | 0.946 | 0.929 | 0.913 | 0.905 | — | — | — |
| **PKA-RP4FAL** | 1.00 | 0.985 | 0.957 | 0.931 | 0.908 | 0.886 | 0.876 | 0.865 | 0.846 | 0.829 |

**Heating capacity correction factors**

| Service Ref. | Refrigerant piping length (one way) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5m | 10m | 20m | 30m | 40m | 50m | 55m | 60m | 70m | 80m |
| **PKA-RP2.5FAL** | 1.00 | 0.997 | 0.991 | 0.985 | 0.979 | 0.973 | 0.970 | — | — | — |
| **PKA-RP3FAL** | 1.00 | 0.997 | 0.991 | 0.985 | 0.979 | 0.973 | 0.970 | — | — | — |
| **PKA-RP4FAL** | 1.00 | 0.997 | 0.991 | 0.985 | 0.979 | 0.973 | 0.970 | 0.967 | 0.961 | 0.955 |

**PKA-RP•FAL / PUH-P•VGAA PUH-P•YGAA PUH-P•VGAA.UK PUH-P•YGAA.UK**
**PU-P•VGAA PU-P•YGAA PU-P•VGAA.UK PU-P•YGAA.UK**
**PUH-P•VGAA1.UK PUH-P•YGAA1.UK**
**PU-P•VGAA1.UK PU-P•YGAA1.UK**

**Cooling capacity correction factors**

| Service Ref. | Refrigerant piping length(one way) | | | | | |
|---|---|---|---|---|---|---|
| | 5m | 10m | 20m | 30m | 40m | 50m |
| **PKA-RP2.5FAL** | 1.00 | 0.989 | 0.970 | 0.950 | 0.930 | 0.910 |
| **PKA-RP3FAL** | 1.00 | 0.981 | 0.952 | 0.925 | 0.900 | 0.874 |
| **PKA-RP4FAL** | 1.00 | 0.989 | 0.970 | 0.950 | 0.930 | 0.910 |

**Heating capacity correction factors**

| Service Ref. | Refrigerant piping length(one way) | | | | | |
|---|---|---|---|---|---|---|
| | 5m | 10m | 20m | 30m | 40m | 50m |
| **PKA-RP2.5FAL** | 1.00 | 0.998 | 0.993 | 0.988 | 0.983 | 0.978 |
| **PKA-RP3FAL** | 1.00 | 0.998 | 0.993 | 0.988 | 0.983 | 0.978 |
| **PKA-RP4FAL** | 1.00 | 0.998 | 0.993 | 0.988 | 0.983 | 0.978 |

## 5-4. STANDARD OPERATION DATA

### Heat pump type (1)

| Service Ref. | | | | PKA-RP2.5FAL | | PKA-RP3FAL | | PKA-RP4FAL | |
|---|---|---|---|---|---|---|---|---|---|
| Mode | | | | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Total | Capacity | | W | 6,000 | 7,000 | 7,100 | 8,000 | 10,000 | 11,200 |
| | Input | | kW | 1.55 | 2.01 | 1.98 | 2.40 | 2.93 | 3.25 |
| Electrical circuit | **Indoor unit Service Ref.** | | | **PKA-RP2.5FAL** | | **PKA-RP3FAL** | | **PKA-RP4FAL** | |
| | Phase , Hz | | | 1 , 50 | | 1 , 50 | | 1 , 50 | |
| | Volts | | | 230 | | 230 | | 230 | |
| | Amperes | | | 0.43 | 0.43 | 0.43 | 0.43 | 0.52 | 0.52 |
| | **Outdoor unit Service Ref.** | | | **PUHZ-RP2.5VHA** | | **PUHZ-RP3VHA** | | **PUHZ-RP4VHA<br>PUHZ-RP4VHA$_1$** | |
| | Phase , Hz | | | 1 , 50 | | 1 , 50 | | 1 , 50 | |
| | Volts | | | 230 | | 230 | | 230 | |
| | Amperes | | | 6.52 | 8.58 | 8.44 | 10.33 | 12.61 | 14.05 |
| Refrigerant circuit | Discharge pressure | | MPa | 2.61 | 3.08 | 2.71 | 3.24 | 2.57 | 2.90 |
| | Suction pressure | | MPa | 1.01 | 0.75 | 0.96 | 0.73 | 0.88 | 0.74 |
| | Discahrge temperature | | ˚C | 64 | 80 | 67 | 83 | 68 | 78 |
| | Condensing temperature | | ˚C | 43 | 50 | 45 | 54 | 44 | 49 |
| | Suction temperature | | ˚C | 11 | 2 | 10 | 2 | 8 | 3 |
| | Ref.pipe length | | m | 5 | 5 | 5 | 5 | 5 | 5 |
| Indoor side | Intake air temperature | D.B. | ˚C | 27 | 20 | 27 | 20 | 27 | 20 |
| | | W.B. | ˚C | 19 | 15 | 19 | 15 | 19 | 15 |
| | Discharge air temperature | D.B. | ˚C | 14.9 | 38.7 | 13.8 | 41.6 | 13.6 | 41.6 |
| Outdoor side | Intake air temperature | D.B. | ˚C | 35 | 7 | 35 | 7 | 35 | 7 |
| | | W.B. | ˚C | 24 | 6 | 24 | 6 | 24 | 6 |
| SHF | | | | 0.83 | — | 0.77 | — | 0.71 | — |
| BF | | | | 0.13 | — | 0.13 | — | 0.10 | — |

**The unit of pressure has been changed to Mpa on tha international system of unit (SI system).**
**The converted score against tha traditional unit system can be gotten according to the formula below.**
**1(MPa) = 10.2(kgf/㎠)**

## Heat pump type (2)

| Service Ref. | | | | PKA-RP2.5FAL | | | | PKA-RP3FAL | | | | PKA-RP4FAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mode | | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Total | Capacity | | W | 6,450 | 7,350 | 6,450 | 7,350 | 7,850 | 9,400 | 7,850 | 9,400 | 9,400 | 10,800 | 9,400 | 10,800 |
| | Input | | kW | 2.65 | 2.63 | 2.65 | 2.63 | 3.43 | 3.61 | 3.43 | 3.61 | 3.59 | 3.77 | 3.59 | 3.77 |
| Electrical circuit | **Indoor unit Service Ref.** | | | **PKA-RP2.5FAL** | | | | **PKA-RP3FAL** | | | | **PKA-RP4FAL** | | | |
| | Phase , Hz | | | 1 , 50 | | | | 1 , 50 | | | | 1 , 50 | | | |
| | Volts | | | 230 | | | | 230 | | | | 230 | | | |
| | Amperes | | | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.52 | 0.52 | 0.52 | 0.52 |
| | **Outdoor unit Service Ref.** | | | **PUH-P2.5VGAA<br>PUH-P2.5VGAA.UK<br>PUH-P2.5VGAA1.UK** | | **PUH-P2.5YGAA.UK<br>PUH-P2.5YGAA1.UK** | | **PUH-P3VGAA<br>PUH-P3VGAA.UK<br>PUH-P3VGAA1.UK** | | **PUH-P3YGAA<br>PUH-P3YGAA.UK<br>PUH-P3YGAA1.UK** | | **PUH-P4VGAA.UK<br>PUH-P4VGAA1.UK** | | **PUH-P4YGAA<br>PUH-P4YGAA.UK<br>PUH-P4YGAA1.UK** | |
| | Phase , Hz | | | 1 , 50 | | 3 , 50 | | 1 , 50 | | 3 , 50 | | 1 , 50 | | 3 , 50 | |
| | Volts | | | 230 | | 400 | | 230 | | 400 | | 230 | | 400 | |
| | Amperes | | | 12.23 | 12.14 | 3.78 | 3.75 | 15.96 | 16.82 | 5.02 | 5.30 | 16.63 | 17.49 | 5.18 | 5.47 |
| Refrigerant circuit | Discharge pressure | | MPa | 2.10 | 2.23 | 2.10 | 2.23 | 2.26 | 2.54 | 2.26 | 2.54 | 1.95 | 2.14 | 1.95 | 2.14 |
| | Suction pressure | | MPa | 0.51 | 0.43 | 0.51 | 0.43 | 0.47 | 0.40 | 0.47 | 0.40 | 0.48 | 0.41 | 0.48 | 0.41 |
| | Discahrge temperature | | ˚C | 76 | 80 | 76 | 80 | 81 | 91 | 81 | 91 | 75 | 70 | 75 | 70 |
| | Condensing temperature | | ˚C | 49 | 49 | 49 | 49 | 51 | 54 | 51 | 54 | 47 | 47 | 47 | 47 |
| | Suction temperature | | ˚C | 7 | -1 | 7 | -1 | 4 | -1 | 4 | -1 | 8 | 0 | 8 | 0 |
| | Ref.pipe length | | m | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Indoor side | Intake air temperature | D.B. | ˚C | 27 | 20 | 27 | 20 | 27 | 20 | 27 | 20 | 27 | 20 | 27 | 20 |
| | | W.B. | ˚C | 19 | 15 | 19 | 15 | 19 | 15 | 19 | 15 | 19 | 15 | 19 | 15 |
| | Discharge air temperature | D.B. | ˚C | 14.4 | 39.9 | 14.4 | 39.9 | 13.0 | 39.9 | 13.0 | 39.9 | 14.5 | 41.0 | 14.5 | 41.0 |
| Outdoor side | Intake air temperature | D.B. | ˚C | 35 | 7 | 35 | 7 | 35 | 7 | 35 | 7 | 35 | 7 | 35 | 7 |
| | | W.B. | ˚C | 24 | 6 | 24 | 6 | 24 | 6 | 24 | 6 | 24 | 6 | 24 | 6 |
| SHF | | | | 0.80 | — | 0.80 | — | 0.74 | — | 0.74 | — | 0.76 | — | 0.76 | — |
| BF | | | | 0.13 | — | 0.13 | — | 0.11 | — | 0.11 | — | 0.16 | — | 0.16 | — |

**The unit of pressure has been changed to Mpa on tha international system of unit (Sl system).**
**The converted score against tha traditional unit system can be gotten according to the formula below.**
**1(MPa) = 10.2(kgf/㎠)**

## Cooling only type

| Service Ref. | | | | PKA-RP2.5FAL | | PKA-RP3FAL | | PKA-RP4FAL | |
|---|---|---|---|---|---|---|---|---|---|
| Mode | | | | Cooling | Cooling | Cooling | Cooling | Cooling | Cooling |
| Total | Capacity | | W | 6,450 | 6,450 | 7,850 | 7,850 | 9,400 | 9,400 |
| | Input | | kW | 2.65 | 2.65 | 3.43 | 3.43 | 3.59 | 3.59 |
| Electrical circuit | **Indoor unit Service Ref.** | | | **PKA-RP2.5FAL** | | **PKA-RP3FAL** | | **PKA-RP4FAL** | |
| | Phase , Hz | | | 1 , 50 | | 1 , 50 | | 1 , 50 | |
| | Volts | | | 230 | | 230 | | 230 | |
| | Amperes | | | 0.43 | 0.43 | 0.43 | 0.43 | 0.52 | 0.52 |
| | **Outdoor unit Service Ref.** | | | **PU-P2.5VGAA<br>PU-P2.5VGAA.UK<br>PU-P2.5VGAA1.UK** | **PU-P2.5YGAA.UK<br>PU-P2.5YGAA1.UK** | **PU-P3VGAA<br>PU-P3VGAA.UK<br>PU-P3VGAA1.UK** | **PU-P3YGAA<br>PU-P3YGAA.UK<br>PU-P3YGAA1.UK** | **PU-P4VGAA.UK<br>PU-P4VGAA1.UK** | **PU-P4YGAA<br>PU-P4YGAA.UK<br>PU-P4YGAA1.UK** |
| | Phase , Hz | | | 1 , 50 | 3 , 50 | 1 , 50 | 3 , 50 | 1 , 50 | 3 , 50 |
| | Volts | | | 230 | 400 | 230 | 400 | 230 | 400 |
| | Amperes | | | 12.23 | 3.78 | 15.96 | 5.02 | 16.63 | 5.18 |
| Refrigerant circuit | Discharge pressure | | MPa | 2.10 | 2.10 | 2.26 | 2.26 | 1.95 | 1.95 |
| | Suction pressure | | MPa | 0.51 | 0.51 | 0.47 | 0.47 | 0.48 | 0.48 |
| | Discahrge temperature | | ˚C | 76 | 76 | 81 | 81 | 75 | 75 |
| | Condensing temperature | | ˚C | 49 | 49 | 51 | 51 | 47 | 47 |
| | Suction temperature | | ˚C | 7 | 7 | 4 | 4 | 8 | 8 |
| | Ref.pipe length | | m | 5 | 5 | 5 | 5 | 5 | 5 |
| Indoor side | Intake air temperature | D.B. | ˚C | 27 | 27 | 27 | 27 | 27 | 27 |
| | | W.B. | ˚C | 19 | 19 | 19 | 19 | 19 | 19 |
| | Discharge air temperature | D.B. | ˚C | 14.4 | 14.4 | 13.0 | 13.0 | 14.5 | 14.5 |
| Outdoor side | Intake air temperature | D.B. | ˚C | 35 | 35 | 35 | 35 | 35 | 35 |
| | | W.B. | ˚C | 24 | 24 | 24 | 24 | 24 | 24 |
| SHF | | | | 0.80 | 0.80 | 0.74 | 0.74 | 0.76 | 0.76 |
| BF | | | | 0.13 | 0.13 | 0.11 | 0.11 | 0.16 | 0.16 |

**The unit of pressure has been changed to Mpa on tha international system of unit (SI system).**
**The converted score against tha traditional unit system can be gotten according to the formula below.**
**1(MPa) = 10.2(kgf/㎠)**

## 5-5. OUTLET AIR SPEED COVERAGE RANGE

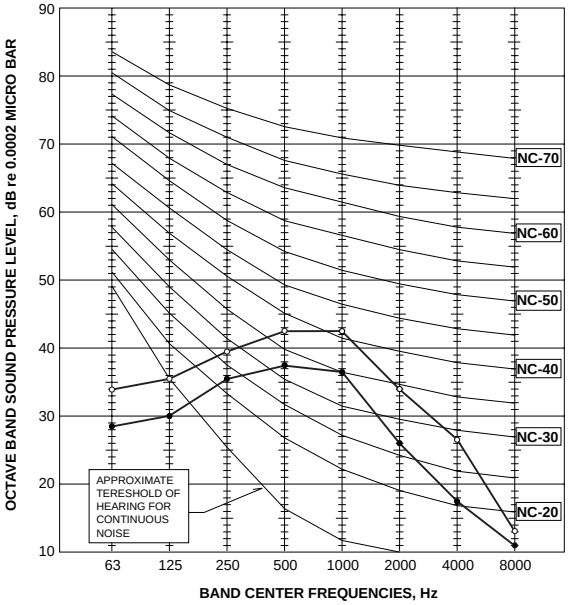
| | PKA-RP2.5FAL | PKA-RP3FAL | PKA-RP4FAL |
|---|---|---|---|
| Air flow $m^3$/min | 20 | 20 | 28 |
| Air speed m/sec | 4.9 | 4.9 | 5.4 |
| Coverage range m (ft) | 12.4(40.7) | 12.4(40.7) | 15.3(50.2) |

The air coverage range is the value up to the position where the air speed is 0.25m/sec. when air is blown out horizontally from the unit at the Hi notch position.
The coverage range should be used only as a general guideline since it varies according to the size of the room and the furniture inside the room.

## 5-6. NOISE CRITERION CURVES

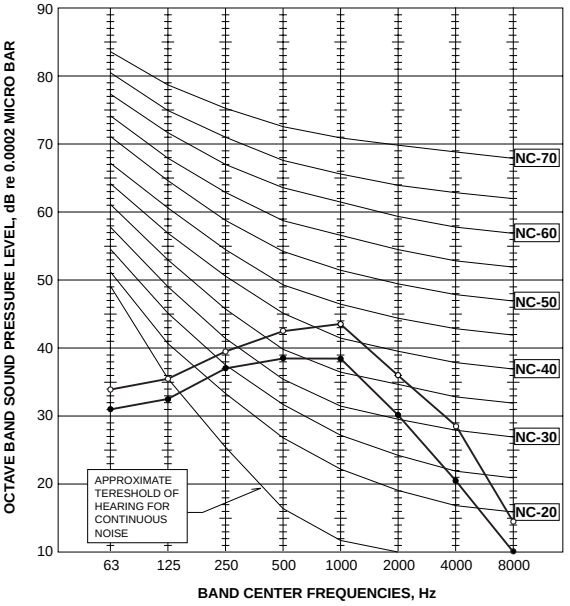
### PKA-RP2.5FAL
### PKA-RP3FAL

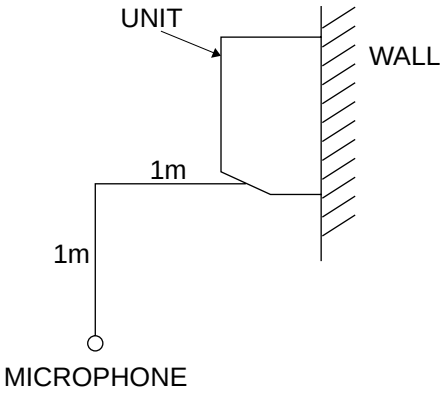
| NOTCH | SPL(dB) | LINE |
|---|---|---|
| Hi | 45 | ○——○ |
| Lo | 39 | ●——● |




### PKA-RP4FAL

| NOTCH | SPL(dB) | LINE |
|---|---|---|
| Hi | 46 | ○——○ |
| Lo | 41 | ●——● |

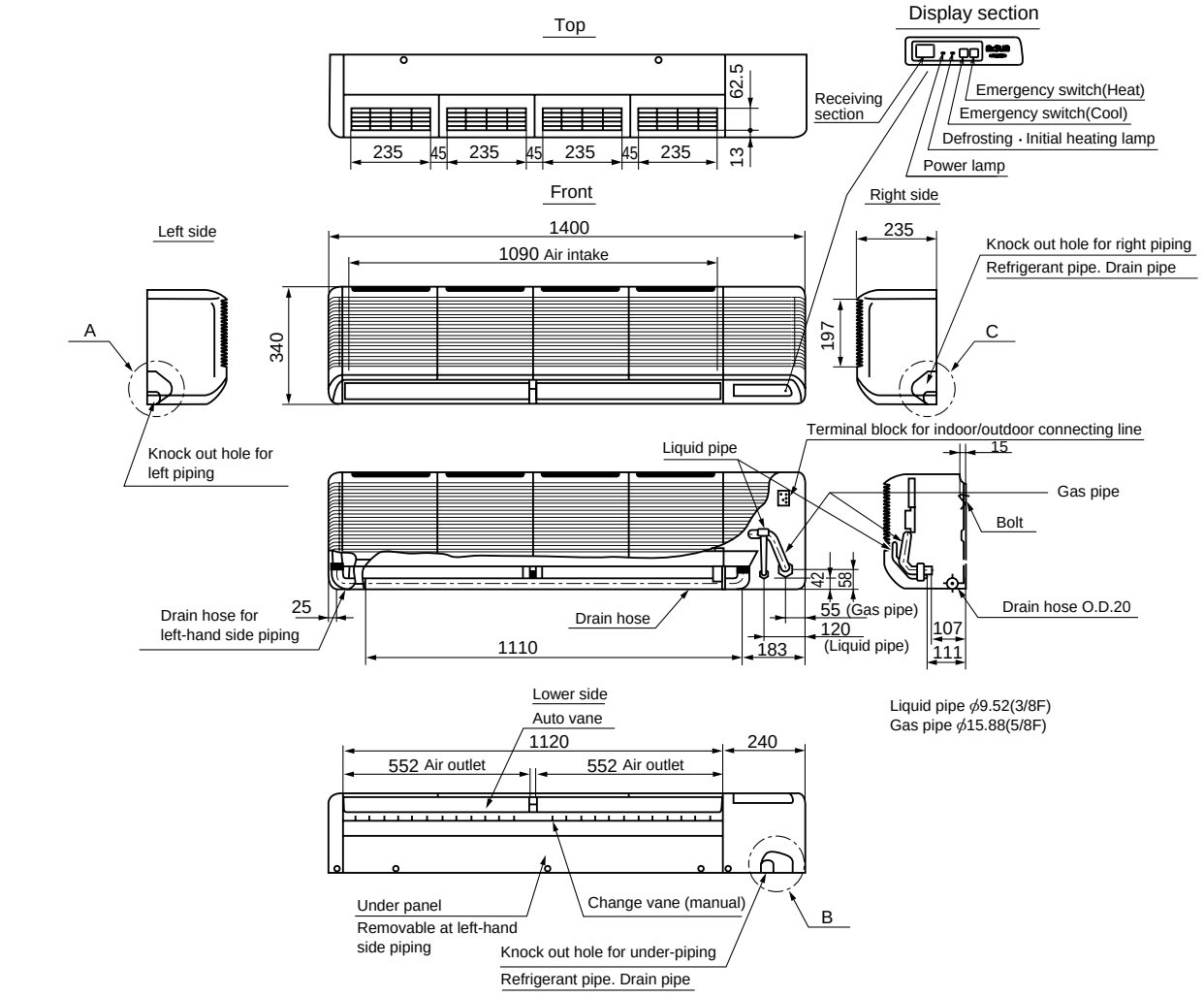


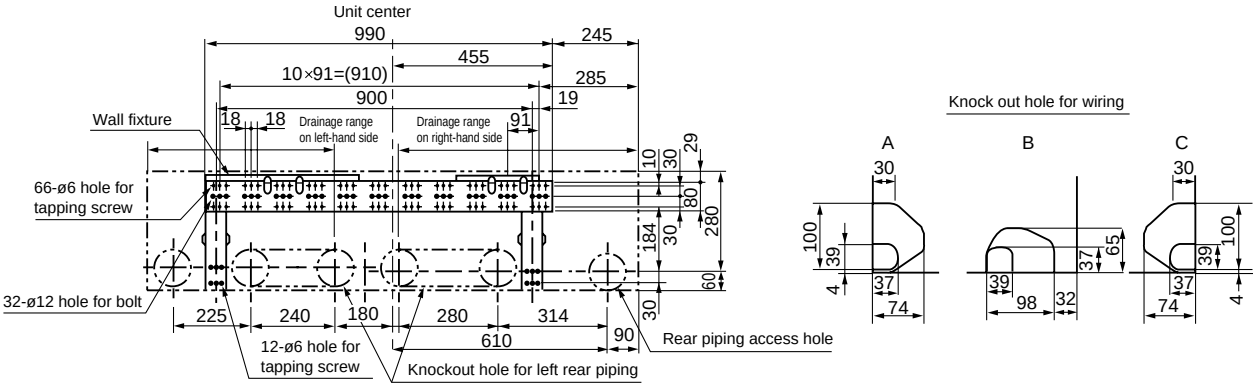



# 6 OUTLINES AND DIMENSIONS

**PKA-RP2.5FAL**
**PKA-RP3FAL**

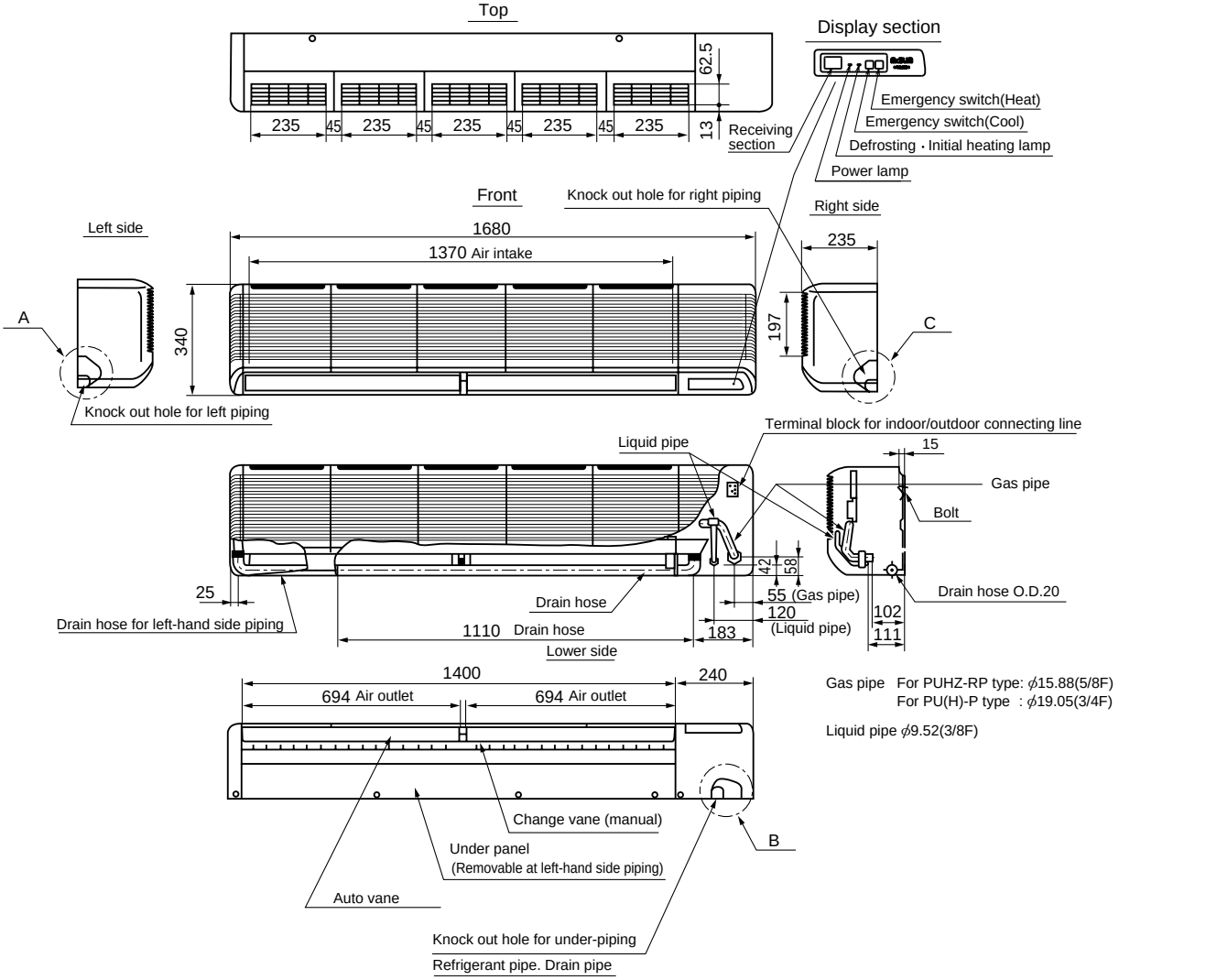
**Unit : mm**

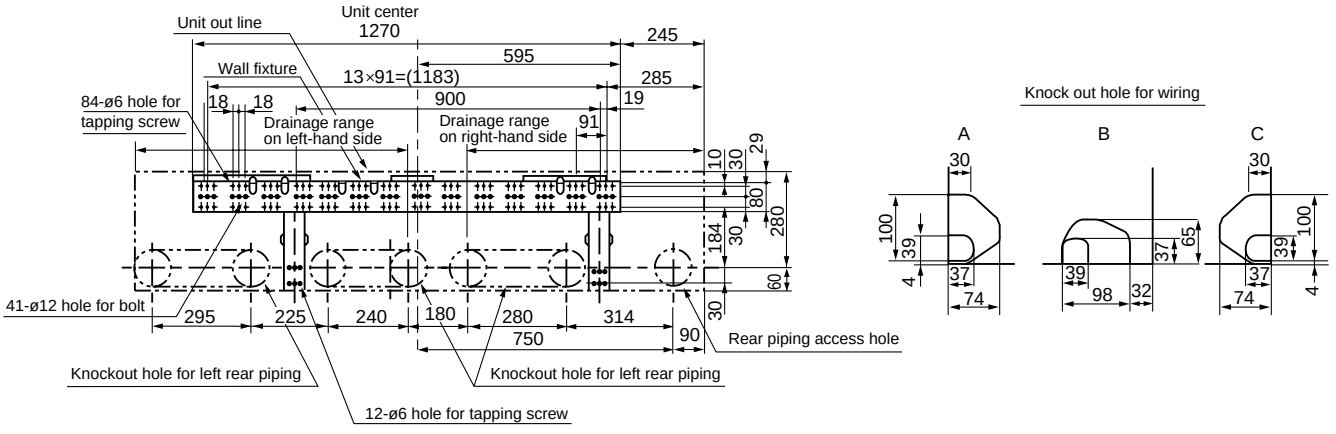


## PKA-RP4FAL

**Unit : mm**

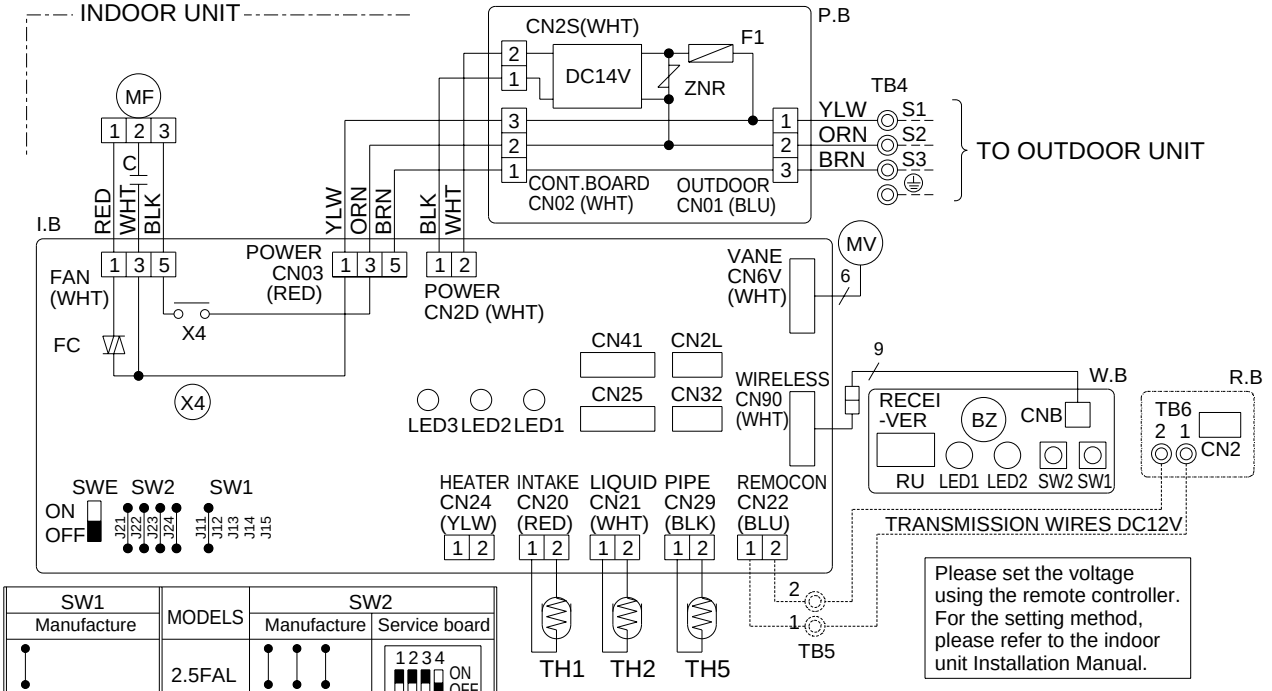


# 7 WIRING DIAGRAM

## PKA-RP2.5FAL PKA-RP3FAL PKA-RP4FAL

| SYMBOL | NAME | SYMBOL | NAME | SYMBOL | NAME |
|---|---|---|---|---|---|
| P.B | INDOOR POWER BOARD | C | CAPACITOR(FAN MOTOR) | W.B | WIRELESS REMOTE CONTROLLER BOARD |
| F1 | FUSE(4A) | MF | FAN MOTOR | RU | RECEIVING UNIT |
| ZNR | VARISTOR | MV | VANE MOTOR | BZ | BUZZER |
| I.B | INDOOR CONTROLLER BOARD | TB4 | TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING LINE) | LED1 | LED(RUN INDICATOR) |
| CN2L | CONNECTOR(LOSSNAY) | | | LED2 | LED(HOT ADJUST) |
| CN32 | CONNECTOR(REMOTE SWITCH) | TB5 | TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)(OPTION) | SW1 | SWITCH(HEATING ON/OFF) |
| CN41 | CONNECTOR(HA TERMINAL-A) | | | SW2 | SWITCH(COOLING ON/OFF) |
| SW1 | JUMPER WIRE(MODEL SELECTION) | TH1 | ROOM TEMPERATURE THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT) | R.B | REMOTE CONTROLLER BOARD(OPTION) |
| SW2 | JUMPER WIRE(CAPACITY CODE) | | | CN2 | CONNECTOR(SCHEDULE TIMER) |
| SWE | SWITCH(EMERGENCY OPERATION) | TH2 | PIPE TEMPERATURE THERMISTOR/LIQUID (0°C/15kΩ, 25°C/5.4kΩ DETECT) | TB6 | TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE) |
| X4 | RELAY(FAN MOTOR) | | | | |
| FC | FAN PHASE CONTROL | TH5 | CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT) | | |
| LED1 | POWER SUPPLY(I.B) | | | | |
| LED2 | POWER SUPPLY(R.B) | | | | |
| LED3 | TRANSMISSION(INDOOR-OUTDOOR) | | | | |




| SW1 | MODELS | SW2 | |
|---|---|---|---|
| Manufacture | | Manufacture | Service board |
| J11J12J13J14J15 | 2.5FAL | J21J22J23J24 | 1234 ON OFF |
| Service board | 3FAL | J21J22J23J24 | 1234 ON OFF |
| 12345 ON OFF | 4FAL | J21J22J23J24 | 1234 ON OFF |

NOTES:

1.Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
2.Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers(S1, S2, S3).
3.Symbols used in wiring diagram above are, □□□ :Connector, ◎:Terminal (block).

[Self-diagnosis]

An explanation of the wireless remote controller self checking operations, check codes, buzzer sounds and LED signals are given below. For check codes and symptom see the table below please.

1.Press the (CHECK) button twice continuously.
- (CHECK) begins to light and refrigerant address display "00" begins to blink.
- Start this operation from the status of remote controller display turned off.

2.Press the TEMP (▼) , (▲) buttons.
- Set the refrigerant address of the indoor unit that is to be self-diagnosed.
- Set the refrigerant address of outdoor unit by outdoor unit dip switch "SW1". (Refer to installation manual of outdoor unit for the detail.)

3.While pointing the remote controller toward the unit's receiver, press the (h) button.
- The check code will be indicated by the number of times that the buzzer sounds from the receiver section and the number of blinks of the operation lamp.

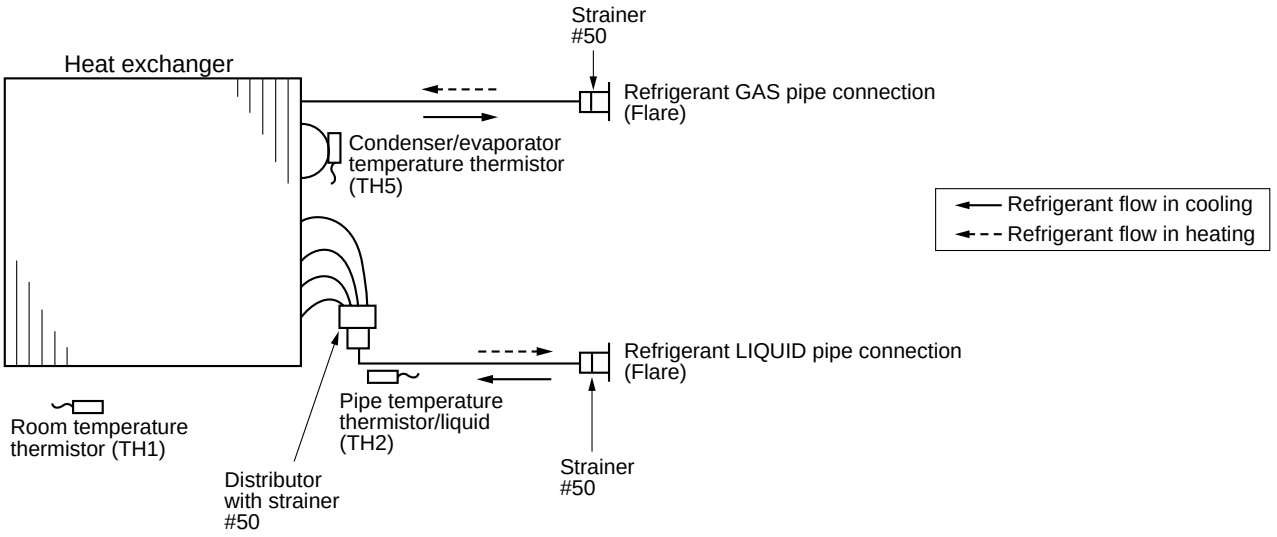
4.While pointing the remote controller toward the unit's receiver, press the ON/OFF (⏻) button.
- Self-check mode is canceled.

| Check code | Operation lamp | Buzzer sound | Symptom |
|---|---|---|---|
| P1 | 1SEC.FLASH X 1 | Single beep X 1 | Abnormality of room temperature thermistor(TH1). |
| P2 | 1SEC.FLASH X 2 | Single beep X 2 | Abnormality of pipe temperature thermistor/Liquid(TH2). |
| P4 | 1SEC.FLASH X 4 | Single beep X 4 | Abnormality of drain sensor(DS). |
| P5 | 1SEC.FLASH X 5 | Single beep X 5 | Malfunction of drain-up machine. |
| P6 | 1SEC.FLASH X 6 | Single beep X 6 | Freezing /overheating protection is working. |
| P8 | 1SEC.FLASH X 8 | Single beep X 8 | Abnormality of pipe temperature. |
| P9 | 1SEC.FLASH X 2 | Single beep X 2 | Abnormality of pipe temperature thermistor/ Condenser/Evaporator(TH5). |
| U0~UL | (0.4+0.4)SEC.FLASH X 1 | Double beep X 1 | Abnormality in outdoor unit. Refer to outdoor unit wiring diagram. |
| F1~F9 | | | |
| E6~EF | DIFFERENT FROM ABOVE | Sounds other than above | Abnormality of signal transmission between indoor unit and outdoor unit ("EE" indicates abnormality of combination). |
| ---- | OFF | No sound | No trouble generated in the past. |
| FFFF | OFF | Triple beep | No corresponding unit. |

# 8 REFRIGERANT SYSTEM DIAGRAM

**PKA-RP2.5FAL**
**PKA-RP3FAL**
**PKA-RP4FAL**

**Unit : mm**



# 9 TROUBLESHOOTING

## 9-1. TROUBLESHOOTING

**<Error code display by self-diagnosis and actions to be taken for service (summary)>**
Present and past error codes are logged and displayed on the wired remote controller or controller board of outdoor unit. Actions to be taken for service and the inferior phenomenon reoccurrence at field are summarized in the table below. Check the contents below before investigating details.

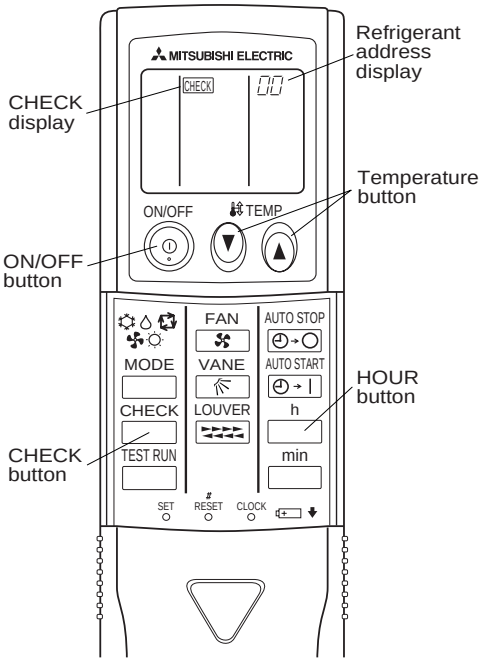
| Unit conditions at service | Error code | Actions to be taken for service (summary) |
|---|---|---|
| The inferior phenomenon is reoccurring. | Displayed | Judge what is wrong and take a corrective action according to “Self-diagnosis action table” (Page 39). |
| | Not displayed | Identify the cause of the inferior phenomenon and take a corrective action according to “Trouble shooting by inferior phenomena” (Page 42). |
| The inferior phenomenon is not reoccurring. | Logged | ①Consider the temporary defects such as the work of protection devices in the refrigerant circuit including compressor, poor connection of wiring, noise and etc. Re-check the symptom, and check the installation environment, refrigerant amount, weather when the inferior phenomenon occurred, and wiring related.<br>②Reset error code logs and restart the unit after finishing service.<br>③There is no abnormality in electrical components, controller boards, and remote controller. |
| | Not logged | ①Recheck the abnormal symptom.<br>②Identify the cause of the inferior phenomenon and take a corrective action according to “Trouble shooting by inferior phenomena” (Page 42).<br>③Continue to operate unit for the time being if the cause is not ascertained.<br>④There is no abnormality in electrical components, controller boards, remote controller etc. |

## 9-2. Malfunction-diagnosis method by remote controller

**<In case of trouble during operation>**

When a malfunction occurs to air conditioner, both indoor unit and outdoor unit will stop and operation lamp blinks to inform unusual stop.

**<Malfunction-diagnosis method at maintenance service>**




**[Procedure]**

1. Press the CHECK button twice.
   - "CHECK" lights, and refrigerant address "00" flashes.
   - Check that the remote controller's display has stopped before continuing.
2. Press the temperature ▼▲ buttons.
   - Select the refrigerant address of the indoor unit for the self-diagnosis.

   Note: Set refrigerant address using the outdoor unit's DIP switch (SW1). (For more information, see the outdoor unit installation manual.)
3. Point the remote controller at the sensor on the indoor unit and press the HOUR button.
   - If an air conditioner error occurs, the indoor unit's sensor emits an intermittent buzzer sound, the operation light flashes, and the error code is output. (It takes 3 seconds at most for error code to appear.)
4. Point the remote controller at the sensor on the indoor unit and press the ON/OFF button.
   - The check mode is cancelled.

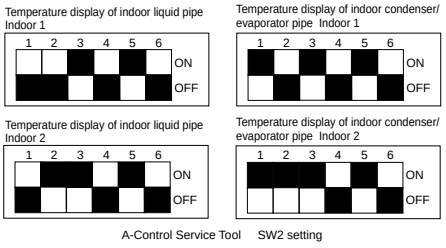
✻ Malfunction diagnosis can be performed only for refrigerant system controlling wireless units.

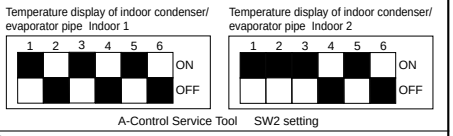
| Inspected unit | Check code | Beep output | Operation LED | Inspected unit | Check code | Beep output | Operation LED |
|---|---|---|---|---|---|---|---|
| Indoor unit | P1 | beep × 1 time | 1 sec. × 1 time | Outdoor unit | F1–F9 | beep beep × 1 time | (0.4sec+0.4sec) × 1 time |
| | P2 | beep × 2 times | 1 sec.× 2 times | | U0–UP | | |
| | P4 | beep × 4 times | 1 sec.× 4 times | | E6–EE | Other than above | Other than above |
| | P5 | beep × 5 times | 1 sec.× 5 times | — | No check code (normal) | No output | Lights off |
| | P6 | beep × 6 times | 1 sec.× 6 times | | No check code (mistake of matching with refrigerant address) | beep beep beep | Lights off |
| | P8 | beep × 8 times | 1 sec.× 8 times | | | | |
| | P9 | beep × 2 times | 1 sec.× 2 times | | | | |
| | E4, E5 | Other than above | Other than above | | | | |

## 9-3. SELF-DIAGNOSIS ACTION TABLE

Note: Refer to the manual of outdoor unit for the details of display such as F, U, and other E.

| Error Code | Meaning of error code and detection method | Cause | Countermeasure |
|---|---|---|---|
| P1 | **Abnormality of room temperature thermistor (TH1)**<br>① The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.)<br>② Constantly detected during cooling, drying, and heating operation.<br>Short: 90℃ or more<br>Open: -40℃ or less | ① Defective thermistor characteristics.<br>② Contact failure of connector (CN20) on the indoor controller board. (Insert failure)<br>③ Breaking of wire or contact failure of thermistor wiring.<br>④ Defective indoor controller board. | ①–③ Check resistance value of thermistor.<br>0℃ ……15.0kΩ<br>10℃ ….9.6kΩ<br>20℃ ….6.3kΩ<br>30℃ ….4.3kΩ<br>40℃ ….3.0kΩ<br>If you put force on (draw or bend) the lead wire with measuring resistance value of thermistor breaking of wire or contact failure can be detected.<br>② Check contact failure of connector (CN20) on the indoor controller board. Refer to page 45. Turn the power on again and check restart after inserting connector again.<br>④ Check room temperature display on remote controller.<br>Replace indoor controller board if there is abnormal difference with actual room temperature.<br><br>Turn the power off, and on again to operate after check. |
| P2 | **Abnormality of pipe temperature thermistor/Liquid (TH2)**<br>① The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.)<br>② Constantly detected during cooling, drying, and heating (except defrosting) operation.<br>Short: 90℃ or more<br>Open: -40℃ or less | ① Defective thermistor characteristics.<br>② Contact failure of connector (CN21) on the indoor controller board. (Insert failure)<br>③ Breaking of wire or contact failure of thermistor wiring.<br>④ Defective refrigerant circuit is causing thermistor temperature of 90℃ or more or -40℃ or less.<br>⑤ Defective indoor controller board. | ①–③ Check resistance value of thermistor.<br>For characteristics, refer to (P1) above.<br>② Check contact failure of connector (CN21) on the indoor controller board. Refer to page 45. Turn the power on and check restart after inserting connector again.<br>④ Check pipe <liquid> temperature with remote controller in test run mode. If pipe <liquid> temperature is exclusively low (in cooling mode) or high (in heating mode), refrigerant circuit may have defective.<br>⑤ Check pipe <liquid> temperature with remote controller in test run mode. If there is exclusive difference with actual pipe <liquid> temperature, replace indoor controller board.<br><br>Turn the power off, and on again to operate after check. |
| P4 | **Abnormality of drain sensor (DS)**<br>① Suspensive abnormality, if short/open of thermistor is detected for 30 seconds continuously.<br>Turn off compressor and indoor fan.<br>② Short/open is detected for 30 seconds continuously during suspensive abnormality.<br>(The unit returns to normal operation, if it has normally reset.)<br>③ Detect the following condition.<br>• During cooling and drying operation.<br>• In case that pipe <liquid> temperature - room temperature <-10deg (Except defrosting)<br>• When pipe <liquid> temperature or room temperature is short/open temperature.<br>• During drain pomp operation. | ① Defective thermistor characteristics<br>② Contact failure of connector (CN31) on the indoor controller board. (Insert failure).<br>③ Breaking of wire or contact failure of drain sensor wiring.<br>④ Defective indoor controller board. | ①–③ Check resistance value of thermistor.<br>0℃ ……6.0kΩ<br>10℃ ….3.9kΩ<br>20℃ ….2.6kΩ<br>30℃ ….1.8kΩ<br>40℃ ….1.3kΩ<br>② Check contact failure of connector (CN31) on the indoor controller board. Refer to page 45. Turn the power on again and check restart after inserting connector again.<br>④ Replace indoor controller board if drain pump operates with the line of drain sensor connector CN31-① and ② is short-circuited, and abnormality reappears.<br><br>Turn the power off, and on again to operate after check. |
| P5 | **Malfunction of drain pump (DP)**<br>① Suspensive abnormality, if thermistor of drain sensor is let heat itself and temperature rises slightly. Turn off compressor and indoor fan.<br>② Drain pomp is abnormal if the condition above is detected during suspensive abnormality.<br>③ Constantly detected during drain pomp operation. | ① Malfunction of drain pump<br>② Defective drain<br>Clogged drain pump<br>Clogged drain pipe<br>③ Attached drop of water at the drain sensor<br>• Drops of drain trickles from lead wire.<br>• Clogged filter is causing wave of drain.<br>④ Defective indoor controller board. | ① Check if drain-up machine works.<br>② Check drain function.<br>③ Check the setting of lead wire of drain sensor and check clogs of the filter.<br>④ Replace indoor controller board if drain pump operates with the line of drain sensor connector CN31-① and ② is short-circuited and abnormality reappears.<br>Refer to page 45.<br><br>Turn the power off, and on again to operate after check. |

| Error Code | Meaning of error code and detection method | Cause | Countermeasure |
|---|---|---|---|
| P6 | **Freezing/overheating protection is working**<br>① Freezing protection (Cooling mode)<br>The unit is in six-minute resume prevention mode if pipe <liquid or condenser/evaporator> temperature stays under -15℃ for three minutes, three minutes after the compressor started. Abnormal if it stays under -15℃ for three minutes again within 16 minutes after six-minute resume prevention mode.<br>② Frost abnormality (Only for the combination with inverter-type outdoor unit)<br>Suspensive abnormal if unit operates in frost prevention mode (below) for 9 minutes or more. After that, when frost prevention mode is released and compressor restarts its operation, unit is not detected as abnormal if compressor keeps operating for 20 minutes continuously and abnormal if compressor stops operating within 20 minutes and unit operates in frost prevention mode for more than 9 minutes again. (Not abnormal if unit stops operating in frost prevention mode within 9 minutes)<br><Frost prevention mode><br>If pipe <liquid or condenser-evaporator> temperature is 2℃ or below when 16 minutes has passed after compressor starts operating, unit will start operating in frost prevention mode which stops compressor operation. After that, when pipe <liquid or condenser/evaporator> temperature stays 10℃ or more for 3 minutes, frost prevention mode will be released and compressor will restart its operation.<br>③ Overheating protection (Heating mode)<br>The units is in six-minute resume prevention mode if pipe <condenser / evaporator> temperature is detected as over 74℃ after the compressor started. Abnormal if the temperature of over 74℃ is detected again within 10 minutes after six-minute resume prevention mode. | (Cooling or drying mode)<br>① Clogged filter (reduced airflow)<br>② Short cycle of air path<br>③ Low-load (low temperature) operation beyond the tolerance range<br>④ Defective indoor fan motor<br>• Fan motor is defective.<br>• Indoor controller board is defective.<br>⑤ Overcharge of refrigerant<br>⑥ Defective refrigerant circuit (clogs)<br><br>(Heating mode)<br>① Clogged filter (reduced airflow)<br>② Short cycle of air path<br>③ Over-load (high temperature) operation beyond the tolerance range<br>④ Defective indoor fan motor<br>• Fan motor is defective.<br>• Indoor controller board is defective.<br>⑤ Overcharge of refrigerant<br>⑥ Defective refrigerant circuit (clogs)<br>⑦ Bypass circuit of outdoor unit is defective. | (Cooling or drying mode)<br>① Check clogs of the filter.<br>② Remove shields.<br>④ Measure the resistance of fan motor's winding.<br>Measure the output voltage of fan's connector (FAN) on the indoor controller board.<br>※The indoor controller board should be normal when voltage of AC 220~240V is detected while fan motor is connected. Refer to page 45.<br>⑤⑥ Check operating condition of refrigerant circuit.<br><br>(Heating mode)<br>① Check clogs of the filter.<br>② Remove shields.<br>④ Measure the resistance of fan motor's winding.<br>Measure the output voltage of fan's connector (FAN) on the indoor controller board.<br>※The indoor controller board should be normal when voltage of AC 220~240V is detected while fan motor is connected. Refer to page 45.<br>⑤~⑦Check operating condition of refrigerant circuit. |
| P8 | **Abnormality of pipe temperature**<br><Cooling mode><br>Detected as abnormal when the pipe temperature is not in the cooling range 3 minutes later of compressor start and 6 minutes later of the liquid or condenser/evaporator pipe is out of cooling range.<br>Note 1) It takes at least 9 min. to detect.<br>Note 2) Abnormality P8 is not detected in drying mode.<br>Cooling range : Indoor pipe temperature (TH2 or TH5) – intake temperature (TH1) ≦ -3 deg<br>TH: Lower temperature between: liquid pipe temperature and condenser/ evaporator temperature<br><br><Heating mode><br>When 10 seconds have passed after the compressor starts operation and the hot adjustment mode has finished, the unit is detected as abnormal when condenser/evaporator pipe temperature is not in heating range within 20 minutes.<br><br>Note 3) It takes at least 27 minutes to detect abnormality.<br>Note 4) It excludes the period of defrosting (Detection restarts when defrosting mode is over)<br>Heating range : 3 deg ≦ (Condenser/ Evaporator temperature(TH5) – intake temperature(TH1)) | ① Slight temperature difference between indoor room temperature and pipe <liquid or condenser / evaporator> temperature thermistor<br>• Shortage of refrigerant<br>• Disconnected holder of pipe <liquid or condenser / evaporator> thermistor<br>• Defective refrigerant circuit<br>② Converse connection of extension pipe (on plural units connection)<br>③ Converse wiring of indoor/ outdoor unit connecting wire (on plural units connection)<br>④ Defective detection of indoor room temperature and pipe <condenser / evaporator> temperature thermistor<br>⑤ Stop valve is not opened completely. | ①~④ Check pipe <liquid or condenser / evaporator> temperature with room temperature display on remote controller and outdoor controller circuit board.<br>Pipe <liquid or condenser / evaporator> temperature display is indicated by setting SW2 of outdoor controller circuit board as follows.<br>(Conduct temperature check with outdoor controller circuit board after connecting 'A-Control Service Tool(PAC-SK52ST)'.)<br>  <br>A-Control Service Tool SW2 setting<br>②③Check converse connection of extension pipe or converse wiring of indoor/outdoor unit connecting wire. |

| Error Code | Meaning of error code and detection method | Cause | Countermeasure |
|---|---|---|---|
| P9 | **Abnormality of pipe temperature thermistor / Condenser-Evaporator (TH5)**<br>① The unit is in three-minute resume protection mode if short/open of thermistor is detected. Abnormal if the unit does not get back to normal within three minutes. (The unit returns to normal operation, if it has normally reset.)<br>② Constantly detected during cooling, drying, and heating operation (except defrosting)<br>Short: 90℃ or more<br>Open: -40℃ or less | ① Defective thermistor characteristics<br>② Contact failure of connector (CN29) on the indoor controller board. (Insert failure)<br>③ Breaking of wire or contact failure of thermistor wiring.<br>④ Temperature of thermistor is 90℃ or more or -40℃ or less caused by defective refrigerant circuit.<br>⑤ Defective indoor controller board. | ①–③ Check resistance value of thermistor. For characteristics, refer to (P1) above.<br>② Check contact failure of connector (CN29) on the indoor controller board. Refer to page 45. Turn the power on and check restart after inserting connector again.<br>④ Operate in test run mode and check pipe <condenser / evaporator> temperature with outdoor controller circuit board. If pipe <condenser / evaporator> temperature is exclusively low (in cooling mode) or high (in heating mode), refrigerant circuit may have defective.<br>⑤ Operate in test run mode and check pipe <condenser / evaporator> temperature with outdoor control circuit board. If there is exclusive difference with actual pipe <condenser / evaporator> temperature replace indoor controller board.<br>There is no abnormality if none of above comes within the unit.<br>Turn the power off and on again to operate.<br>( In case of checking pipe temperature with outdoor controller circuit board, be sure to connect A-control service tool (PAC-SK52ST). )<br>  <br>A-Control Service Tool SW2 setting |
| E4 | **Remote controller signal receiving error**<br>① Abnormal if indoor controller board can not receive normally any data from remote controller or from other indoor controller board for three minutes.<br>② Indoor control board cannot receive any signal from remote controller for two minutes. | ① Contact failure at transmission wire of remote controller<br>② All remote controllers are set as “sub” remote controller. In this case, E0 is displayed on remote controller, and E4 is displayed at LED (LED1, LED2) on the outdoor controller circuit board.<br>③ Defective transmitting receiving circuit of remote controller<br>④ Defective transmitting receiving circuit of indoor controller board.<br>⑤ Noise has entered into the transmission wire of remote controller. | ① Check disconnection or looseness of indoor unit or transmission wire of remote controller.<br>② Set one of the remote controllers “main”. If there is no problem with the action above.<br>③ Diagnose remote controllers.<br>a) When “RC OK” is displayed, Remote controllers have no problem. Put the power off, and on again to check. If abnormality generates again, replace indoor controller board.<br>b) When “RC NG” is displayed, Replace remote controller.<br>c) When “RC E3” is displayed,<br>d) When “ERC 00-06” is displayed,<br>[ c),d)➜Noise may be causing abnormality. ]<br>✻ If the unit is not normal after replacing indoor controller board in group control, indoor controller board of address “0” may be abnormal. |
| E5 | **Remote controller transmitting error**<br>① Abnormal if indoor controller board cannot check the blank of transmission path for three minutes.<br>② Abnormal if indoor controller board cannot finish transmitting 30 times consecutively. | ① Defective transmitting receiving circuit of indoor controller board.<br>② Noise has entered into the transmittion wire of remote controller. | ①② Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board. |
| E6 | **Indoor/outdoor unit communication error (Signal receiving error)**<br>① Abnormal if indoor controller board cannot receive any signal normally for six minutes after putting the power on.<br>② Abnormal if indoor controller board cannot receive any signal normally for three minutes.<br>③ Consider the unit abnormal under the following condition: When two or more indoor units are connected to one outdoor unit, indoor controller board cannot receive a signal for three minutes from outdoor controller circuit board, a signal which allows outdoor controller circuit board to transmit signals. | ① Contact failure, short circuit or, mis-wiring (converse wiring) of indoor/outdoor unit connecting wire<br>② Defective transmitting receiving circuit of indoor controller board<br>③ Defective transmitting receiving circuit of indoor controller board<br>④ Noise has entered into indoor/ outdoor unit connecting wire. | ✻ Check LED display on the outdoor control circuit board. (Connect A-control service tool, PAC-SK52ST.) Refer to EA-EC item if LED displays EA-EC.<br>① Check disconnection or looseness of indoor/ outdoor unit connecting wire of indoor unit or outdoor unit. Check all the units in case of twin triple indoor unit system.<br>②-④ Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board or outdoor controller circuit board.<br>✻ Other indoor controller board may have defective in case of twin triple indoor unit system. |
| E7 | **Indoor/outdoor unit communication error (Transmitting error)**<br>Abnormal if “1” receiving is detected 30 times continuously though indoor controller board has transmitted “0”. | ① Defective transmitting receiving circuit of indoor controller board<br>② Noise has entered into power supply.<br>③ Noise has entered into outdoor control wire. | ①-③ Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board. |

## 9-4. TROUBLESHOOTING BY INFERIOR PHENOMENA

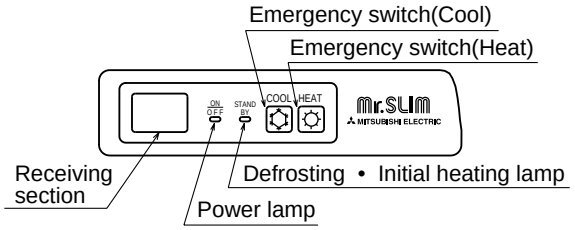
Note: Refer to the manual of outdoor unit for the detail of remote controller.

| Phenomena | Cause | Countermeasure |
|---|---|---|
| **(1)LED2 on indoor controller board is off.** | • When LED1 on indoor controller board is also off.<br>① Power supply of 220~240V is not supplied to outdoor unit. | ① Check the voltage of outdoor power supply terminal block (L, N)<br>• When AC 220~240V is not detected. Check the power wiring to outdoor unit and the breaker.<br>• When AC 220~240V is detected. —Check ② (below). |
| | ② Defective outdoor controller circuit board. | ② Check the voltage between outdoor terminal block S1 and S2.<br>• When AC 220~240V is not detected. Check the fuse on outdoor controller circuit board (10A). Check the wiring connection.<br>• When AC 220~240V is detected. —Check ③ (below). |
| | ③ Power supply of 220~240V is not supplied to indoor unit. | ③ Check the voltage between indoor terminal block S1 and S2.<br>• When AC 220~240V is not detected. Check indoor/outdoor unit connecting wire for mis-wiring.<br>• When AC 220~240V is detected. —Check ④ (below). |
| | ④ Defective indoor power board. | ④ Check voltage output from CN2S on indoor power board (DC14V). Refer to page 46.<br>• When no voltage is output. Check the fuse on indoor power board. Check the wiring connection.<br>• When output voltage is between 12V and 16V. —Check ⑤ (below). |
| | ⑤ Defective indoor controller board. | ⑤ Check the wiring connection between indoor controller board and indoor power board. If no problems are found, indoor controller board is defective. |
| | • When LED1 on indoor controller board is lit.<br>① Mis-setting of refrigerant address for outdoor unit (There is no unit corresponding to refrigerant address “0”.) | ① Reconfirm the setting of refrigerant address for outdoor unit Set the refrigerant address to “0”. (For grouping control system under which 2 or more outdoor units are connected, set one of the units to “0”.) Set refrigerant address using SW1 (3-6) on outdoor controller circuit board. |
| **(2)LED2 on indoor controller board is blinking.** | • When LED1 on indoor controller board is also blinking. Connection failure of indoor/outdoor unit connecting wire<br>• When LED1 is lit. Mis-wiring of remote controller wires Under twin triple indoor unit system, 2 or more indoor units are wired together.<br>① Refrigerant address for outdoor unit is wrong or not set. Under grouping control system, there are some units whose refrigerant address is 0.<br>② Short-cut of remote controller wires<br>③ Defective remote controller | Check indoor/outdoor unit connecting wire for connection failure. Check the connection of remote controller wires in case of twin triple indoor unit system. When 2 or more indoor units are wired in one refrigerant system, connect remote controller wires to one of those units.<br>① Check the setting of refrigerant address in case of grouping control system. If there are some units whose refrigerant addresses are 0 in one group, set one of the units to 0 using SW1 (3-6) on outdoor controller circuit board.<br>②③ Remove remote controller wires and check LED2 on indoor controller board.<br>• When LED2 is blinking, check the short-cut of remote controller wires.<br>• When LED2 is lit, connect remote controller wires again and: if LED2 is blinking, remote controller is defective; if LED2 is lit, connection failure of remote controller terminal block etc. has returned to normal. |
| **(3)Upward/downward vane performance failure** | ① The vane is not downward during defrosting and heat preparation and when the thermostat is OFF in HEAT mode. (Working of COOL protection function)<br>② Vane motor does not rotate.<br>• Defective vane motor<br>• Breaking of wire or connection failure of connector<br>③ Upward/downward vane does not work.<br>• The vane is set to fixed position. | ① Normal operation (The vane is set to horizontal regardless of remote control.)<br>② Check ② (left).<br>• Check the vane motor. (Refer to “How to check the parts”.)<br>• Check for breaking of wire or connection failure of connector.<br>③ Normal operation (Each connector on vane motor side is disconnected.) |

## 9-5. EMERGENCY OPERATION

### 9-5-1. When wireless remote controller troubles or its battery is exhausted

1. Emergency operation is available in such a case using emergency operation switch equipped next to the receiver of indoor unit.
2. To start operation
   • Cooling Operation·····Press (Cooling) switch.
   • Heating Operation·····Press (Heating) switch.
   ※When the unit starts operating, the power lamp is lit.




※Emergency operation will be performed as follows.

| Mode | Cooling | Heating |
|---|---|---|
| Set temperature | 24℃ | 24℃ |
| Fan speed | High | High |
| Airflow direction | Horizontal (30deg) | Downward (70deg) |

3. To stop operation
   • Press either emergency operation switch (cooling/heating).

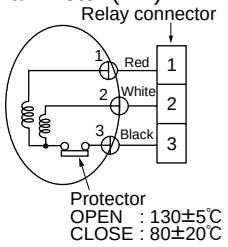
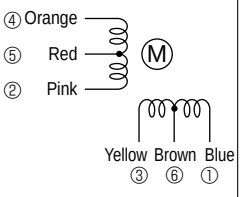
### 9-5-2. When wired remote controller or indoor unit micro computer troubles

1. If there is not any other wrong when trouble occures, emergency operation starts as the indoor controller board switch (SWE) is set to ON.
   During the emergency operation the indoor unit is as follows;
   (1) Indoor fan high speed operation (2) Drain-up machine operation

2. When emergency operating for COOL or HEAT, setting of the switch (SWE) in the indoor controller board and outdoor unit emergency operation are necessary.

3. Check items and notices as the emergency operation
   (1) Emergency operation cannot be used as follows;
      • When the outdoor unit is something wrong.
      • When the indoor fan is something wrong.
      • When drain over flow protected operation is detected during self-diagnosis. (Error code : P5)
   (2) Emergency operation will be serial operation by the power supply ON/OFF.
      ON/OFF or temperature, etc. adjustment is not operated by the remote controller.
   (3) Do not operate for a long time as cold air is blown when the outdoor unit starts defrosting operation during heat emergency operation.
   (4) Cool emergency operation must be within 10 hours at most. It may cause heat exchanger frosting in the indoor unit.
   (5) After completing the emergency operation, return the switch setting, etc. in former state.
   (6) Since vane does not work at emergency operation, position the vane manually and slowly.

## 9-6. How to check the parts
## PKA-RP2.5FAL
## PKA-RP3FAL
## PKA-RP4FAL

<table>
<tr><th>Parts name</th><th>Check points</th></tr>
<tr><td>Room temperature thermistor (TH1)<br>Pipe temperature thermistor/liquid(TH2)<br>Condenser/evaporator temperature thermistor (TH5)</td><td>Disconnect the connector then measure the resistance using a tester.<br>(Surrounding temperature 10℃~30℃)<br><table><tr><th>Normal</th><th>Abnormal</th></tr><tr><td>4.3kΩ~9.6kΩ</td><td>Open or short</td></tr></table></td></tr>
<tr><td>Fan motor (MF)<br> 
</td><td>Measure the resistance between the terminals using a tester.<br>(Winding temperature 20℃)<br><table><tr><th rowspan="2">Motor terminal<br>or<br>Relay connector</th><th colspan="2">Normal</th><th rowspan="2">Abnormal</th></tr><tr><th>RP2.5<br>RP3</th><th>RP4</th></tr><tr><td>Red–Black</td><td>99.5Ω</td><td>62.6Ω</td><td rowspan="2">Open or short</td></tr><tr><td>White–Black</td><td>103.9Ω</td><td>74.0Ω</td></tr></table></td></tr>
<tr><td>Vane motor (MV)<br> 
</td><td>Measure the resistance between the terminals using a tester.<br>(Surrounding temperature 20℃~30℃)<br><table><tr><th rowspan="2">Connector</th><th colspan="2">Normal</th><th rowspan="2">Abnormal</th></tr><tr><th colspan="2">RP2.5, RP3, RP4</th></tr><tr><td>Brown–Yellow</td><td colspan="2" rowspan="4">186~214Ω</td><td rowspan="4">Open or short</td></tr><tr><td>Brown–Blue</td></tr><tr><td>Red–Orange</td></tr><tr><td>Red–Pink</td></tr></table></td></tr>
</table>

<Thermistor Characteristic graph>

Thermistor for lower temperature

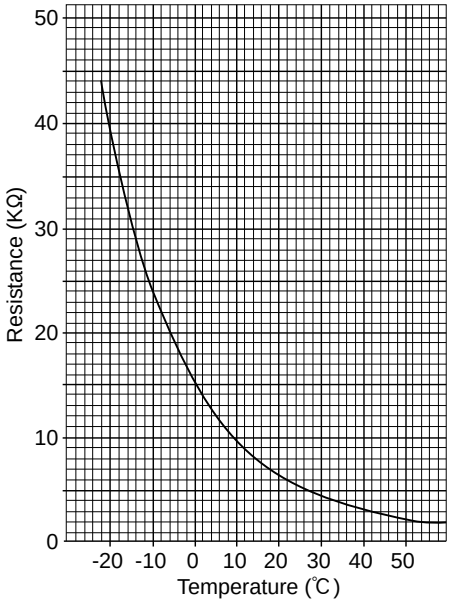
- •Room temperature thermistor(TH1)
- •Pipe temperature thermistor/liquid(TH2)
- •Condenser/evaporator temperature thermistor(TH5)

Thermistor $R_0$=15kΩ ± 3%
Fixed number of B=3480K ± 2%

$$Rt=15\exp\{3480(\frac{1}{273+t}-\frac{1}{273})\}$$

| | |
|---|---|
| 0℃ | 15kΩ |
| 10℃ | 9.6kΩ |
| 20℃ | 6.3kΩ |
| 25℃ | 5.4kΩ |
| 30℃ | 4.3kΩ |
| 40℃ | 3.0kΩ |

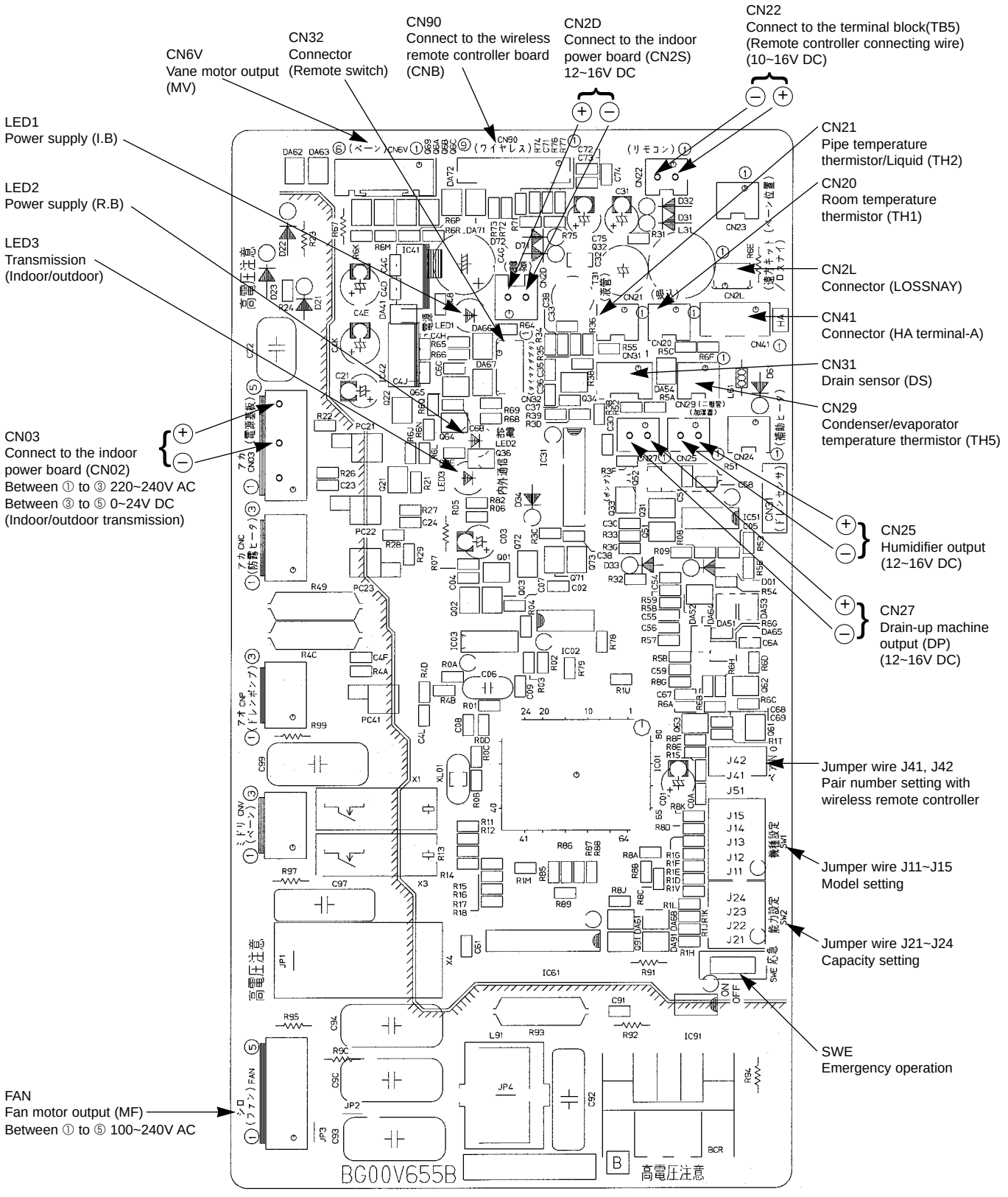
< Thermistor for lower temperature >



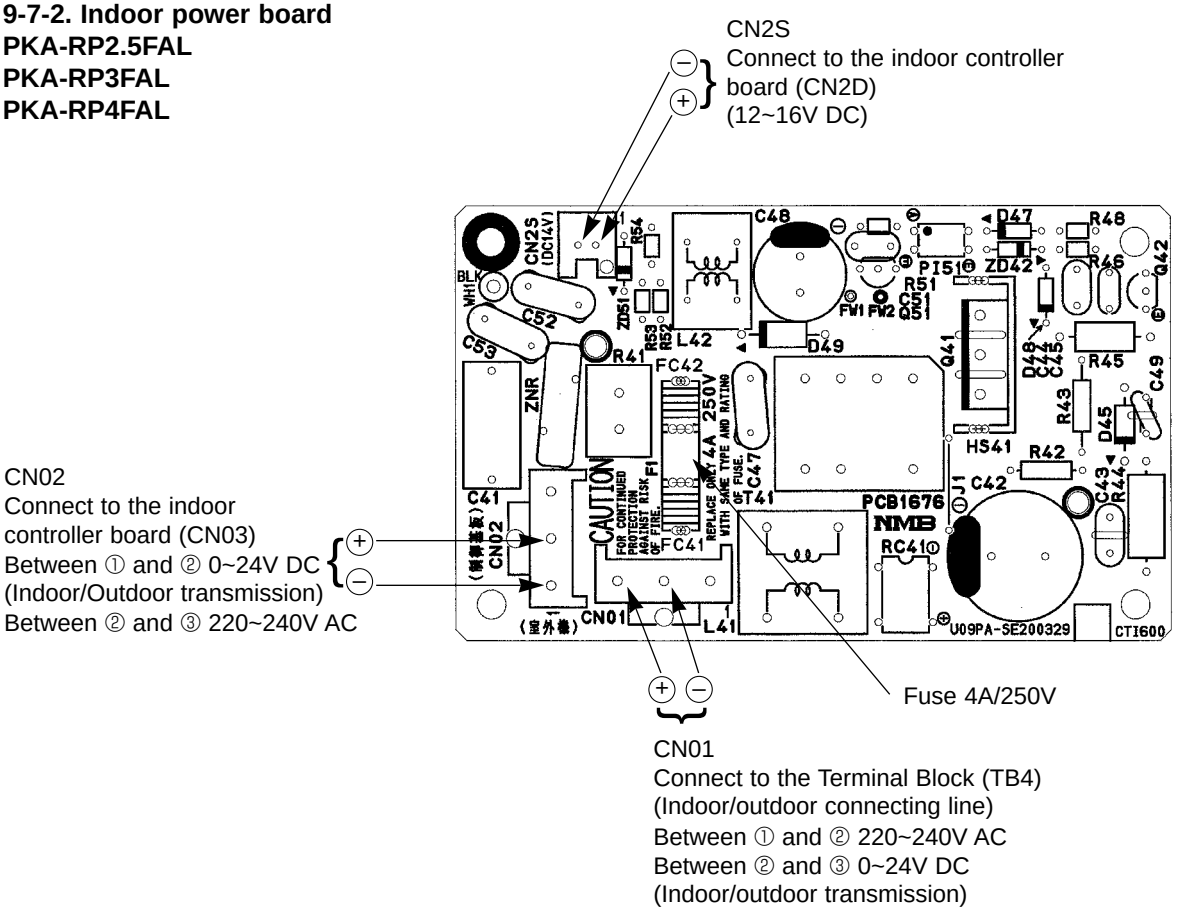
## 9-7. TEST POINT DIAGRAM

### 9-7-1. Indoor controller board

**PKA-RP2.5FAL**
**PKA-RP3FAL**
**PKA-RP4FAL**



**9-7-2. Indoor power board**
**PKA-RP2.5FAL**
**PKA-RP3FAL**
**PKA-RP4FAL**




## 9-8. FUNCTIONS OF JUMPER WIRE

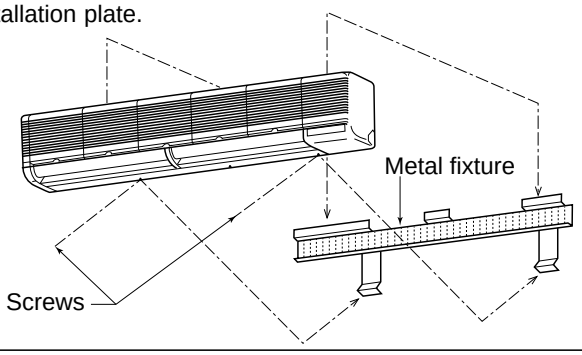
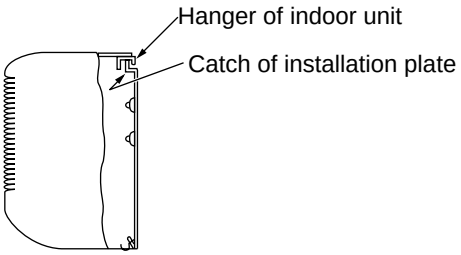
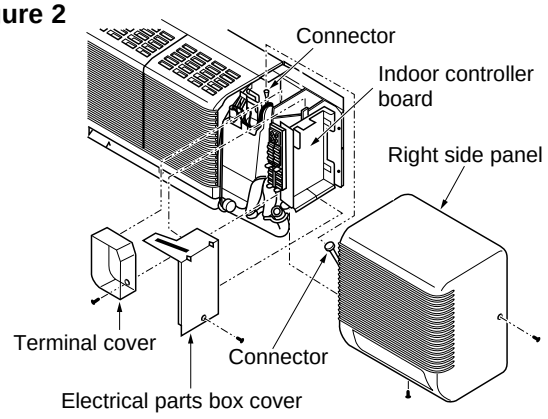
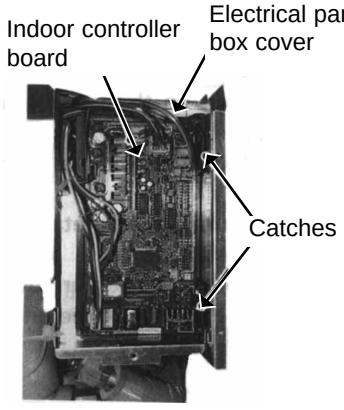
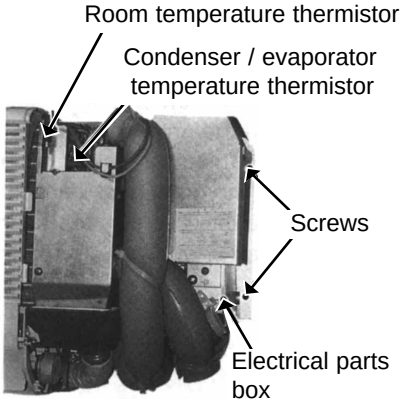
Each function is controlled by the jumper wire on control p.c. board. For service parts, J11- J15 and J21-J24, DIP switches (SW1 and SW2) are equipped with jumper wire.

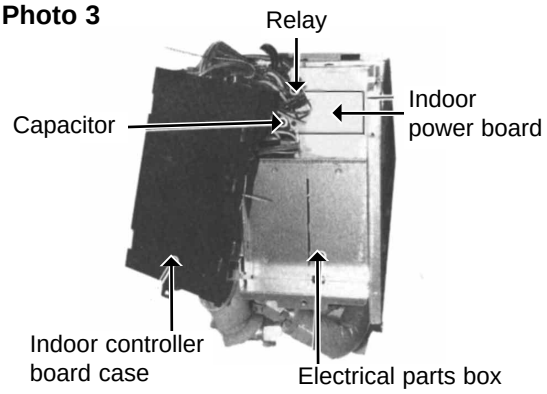
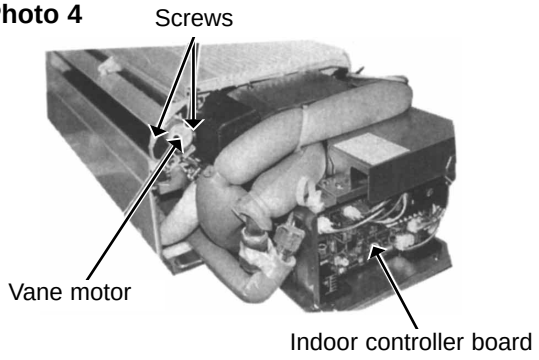
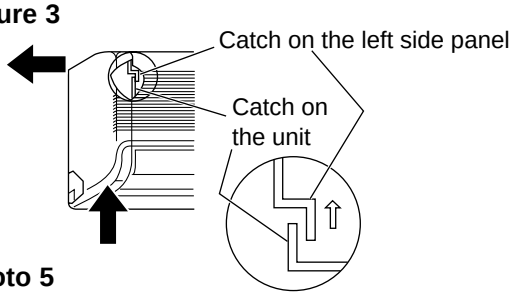
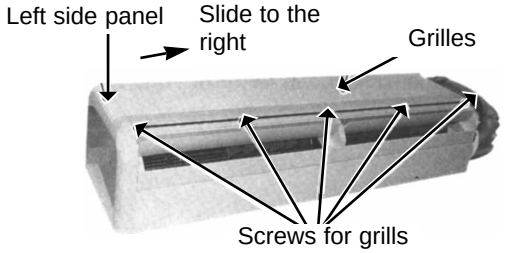
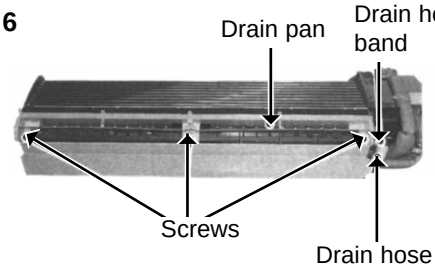
(Marks in the table below) Jumper wire (○ : Short × : Open)
DIP switch (○ : ON × : OFF)

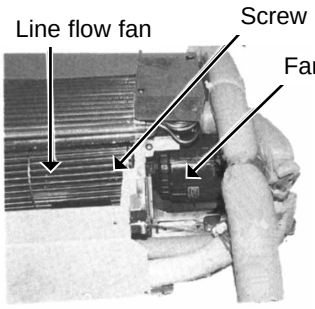
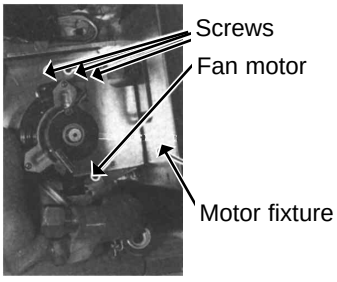
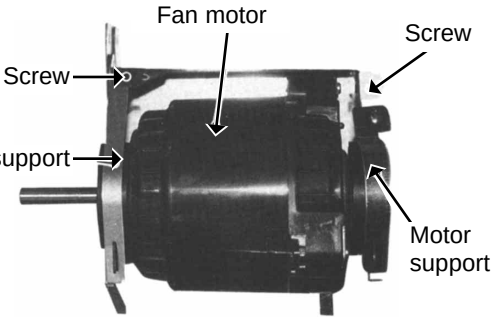
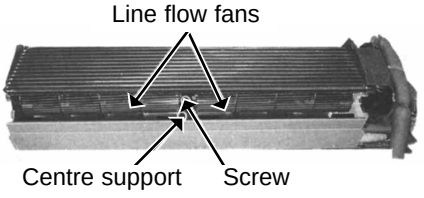
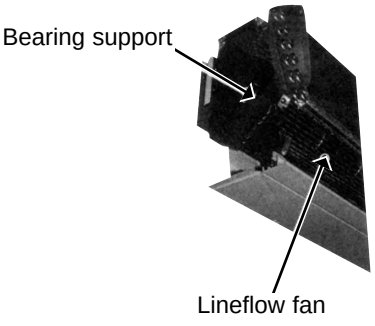
<table>
<tr><th>Jumper wire</th><th>Functions</th><th>Open/short of jumper wire</th><th>Remarks</th></tr>
<tr><td>J11~J15<br>(SW1)</td><td>Model settings</td><td>Models : PKA-RP2.5, RP3, RP4<br><table><tr><td></td><td>J11</td><td>J12</td><td>J13</td><td>J14</td><td>J15</td></tr><tr><td>Heater-less</td><td>○</td><td>×</td><td>×</td><td>×</td><td>×</td></tr></table></td><td></td></tr>
<tr><td>J21~J24<br>(SW2)</td><td>Capacity settings</td><td><table><tr><td>Models</td><td>J21</td><td>J22</td><td>J23</td><td>J24</td></tr><tr><td>RP2.5</td><td>○</td><td>○</td><td>○</td><td>×</td></tr><tr><td>RP3</td><td>○</td><td>×</td><td>×</td><td>○</td></tr><tr><td>RP4</td><td>×</td><td>×</td><td>○</td><td>○</td></tr></table></td><td></td></tr>
<tr><td>J41<br>J42</td><td>Pair number setting with wireless remote controller</td><td><table><tr><td rowspan="2">Wireless remote controller setting</td><td colspan="2">Control PCB setting</td></tr><tr><td>J41</td><td>J42</td></tr><tr><td>0</td><td>○</td><td>○</td></tr><tr><td>1</td><td>×</td><td>○</td></tr><tr><td>2</td><td>○</td><td>×</td></tr><tr><td>3 ~ 9</td><td>×</td><td>×</td></tr></table></td><td><Settings at time of factory shipment><br>Wireless remote controller: 0<br>Control PCB: ○ (for both J41 and J42)<br>Four pair number settings are supported.<br>The pair number settings of the wireless remote controller and indoor control PCB (J41/J42) are given in the table on the left.<br>('×' in the table indicates the jumper line is disconnected.)</td></tr>
</table>

# 10 DISASSEMBLY PROCEDURE

## PKA-RP3FAL

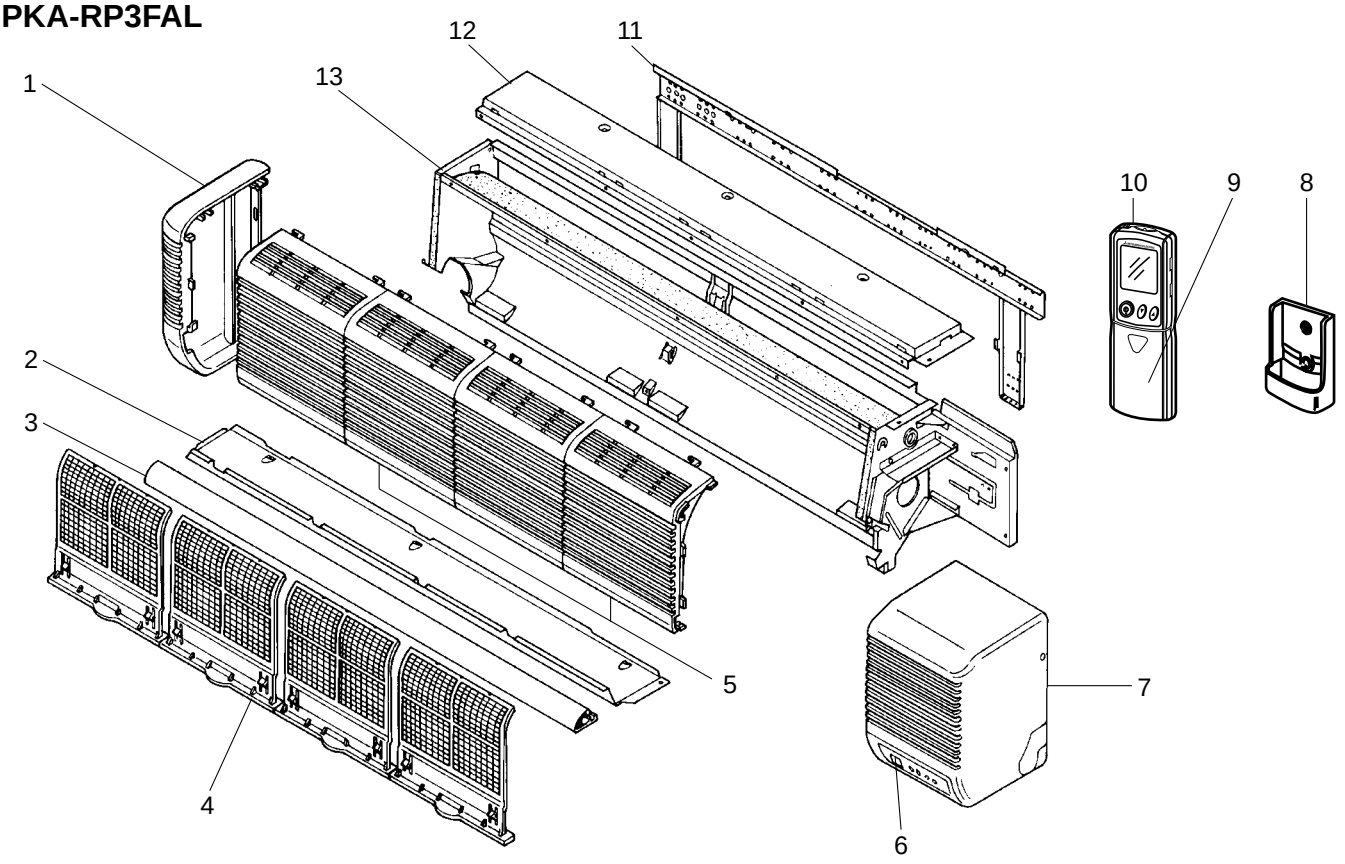
| OPERATING PROCEDURE | PHOTOS & ILLUSTRATION |
|---|---|
| **1. Removing the lower side of the indoor unit from the installation plate**<br>(1) Remove the 2 screws.<br>Hang the indoor unit hangers to the catches on the installation plate.<br>  | **Figure 1**<br>  |
| **2. Removing the right side panel**<br>(1) Remove the 2 screws of the right side panel:one on the bottom and the other on the upper right-hand side.<br>(2) Disconnect the connector from the adapter case.<br>(3) Sliding the right side panel to the right, pull it out toward you. | **Figure 2**<br>  |
| **3. Removing the indoor controller board**<br>(1) Remove the right side panel.<br>(2) Remove the screw of the electrical parts box cover, and remove the cover.<br>(3) Disconnect the connectors on the indoor controller board.<br>(4) To unhook the catches on the right-hand side of the indoor controller board, pull the left-hand side toward you and lift up the cover to the right. Then the indoor controller board can be removed. | **Photo 1**<br>  |
| **4. Removing the electrical parts box**<br>(1) Remove the right side panel.<br>(2) Remove the screw of the electrical parts box cover, and remove the cover.<br>(3) Remove the room temperature thermistor and the condenser / evaporator temperature thermistor.<br>(4) Disconnect the vane motor connector on the indoor controller board.<br>(5) Remove the 2 screws of the electrical parts box.<br>(6) Disconnect the connector of the heater lead wire connector.<br>(7) Disconnect the connector of the fan motor lead wire.<br>(8) Remove the electrical parts box. | **Photo 2**<br>  |

| OPERATING PROCEDURE | PHOTOS & ILLUSTRATION |
|---|---|
| (9) Remove the screws of the indoor controller board case, and pull out the indoor controller board case. Then the indoor power board, the capacitor and the relay can be serviced. | **Photo 3**<br>  <br> |
| **5. Removing the vane motor**<br>(1) Remove the right side panel.<br>(2) Remove the screw of the electrical parts box cover, and remove the cover.<br>(3) Remove the 2 screws of the vane motor, and remove the motor from the shaft.<br>(4) Disconnect the vane motor connector on the indoor controller board. | **Photo 4**<br>  <br> |
| **6 Removing the intake grilles**<br>(1) Remove the right side panel.<br>(2) To remove the left side panel, remove the screw on the bottom and the screw on the upper left-hand side. (See Figure 3.)<br>1. Press up this side of the left side panel to unhook the catch on the panel from the catch on the unit.<br>2. Slide the left side panel to the left to remove the panel.<br>Note: Fix the unit to the metal fixture securely<br>(3) Remove the air filters.<br>(4) Hold and press the centre cover to remove.<br>(5) Remove the screws of the grilles.<br>(6) Pull the lower side of the grille toward you and slide the upper to the right to remove the grilles. | **Figure 3**<br>  <br><br>**Photo 5**<br>  <br> |
| **7. Removing the drain pan**<br>(1) Remove the left and right side panels.<br>(2) Remove the grilles.<br>(3) Remove the electrical parts box cover.<br>(4) Loosen the drain hose band to remove.<br>(5) Remove the 3 screws of the drain pan, and slide the drain pan toward you to remove. | **Photo 6**<br>  <br> |

| OPERATING PROCEDURE | PHOTOS |
|---|---|
| **8. Removing the line flow fan and the fan motor**<br>(1) Remove the left and right side panels.<br>(2) Remove the grilles.<br>(3) Remove the electrical parts box.<br>(4) Remove the drain pan.<br>(5) Loosen the screw that fixes the line flow fan to the fan motor. (See Photo 7. )<br>(6) Remove the 4 screws of the motor fixture, and remove the fan motor and the motor fixture at a time (See Photo 8.)<br>(7) Remove the screws of the left and right motor supports, and remove the motor supports and the fan motor. (See Photo 9.)<br>(8) Remove the 2 screws on the left and right sides of the heat exchanger, and pull the bearing support toward you. (See Photo 11.)<br>(9) Remove the screw of the centre support, and remove the support. (See Photo 10. )<br>(10) Pull the left-hand side of the heat exchanger toward you, and remove the line flow fan. | **Photo 7**<br>  <br><br>**Photo 8**<br>  <br><br>**Photo 9**<br>  <br><br>**Photo 10**<br>  <br><br>**Photo 11**<br>  <br> |

# 11 PARTS LIST

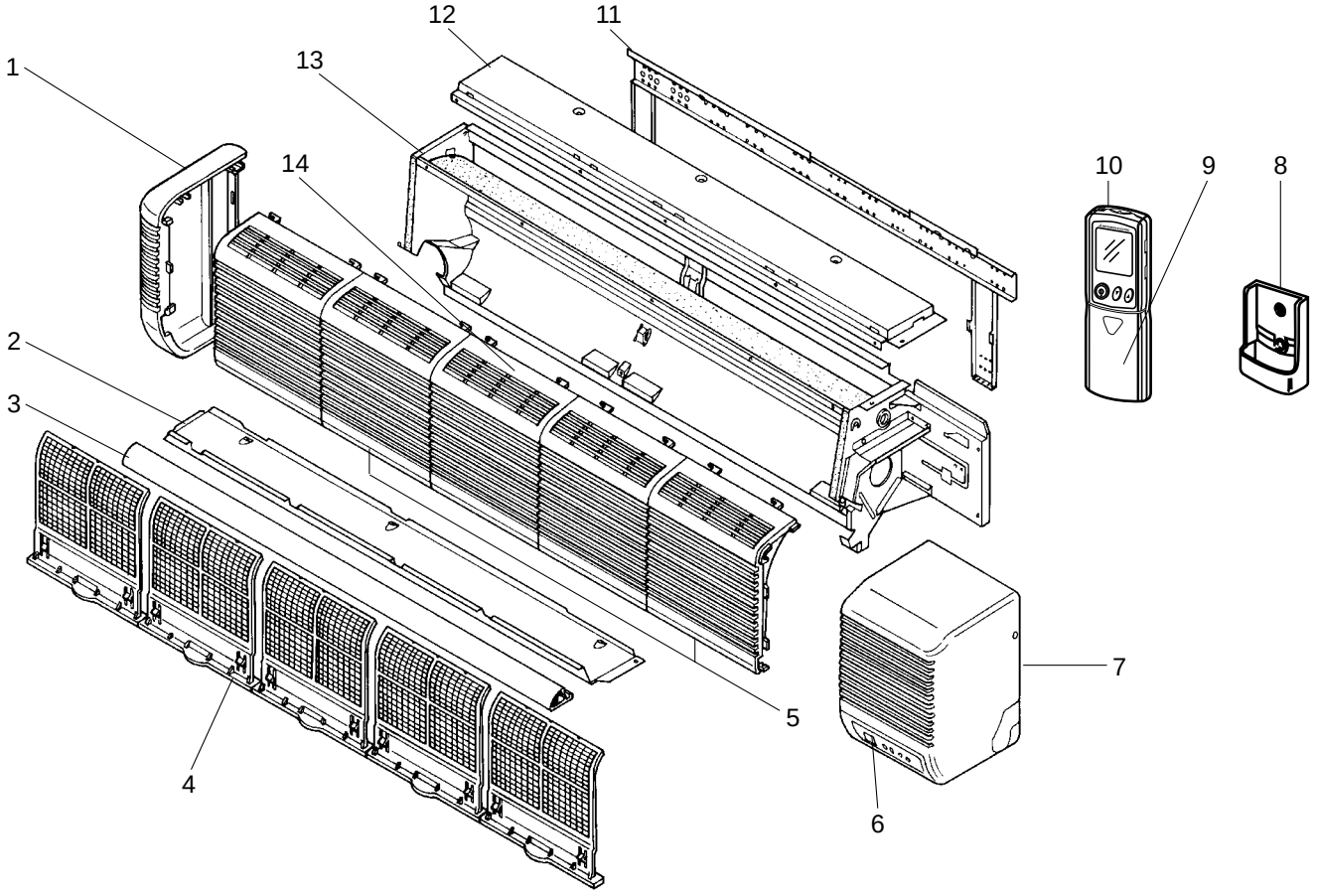
## STRUCTURAL PARTS
## PKA-RP2.5FAL
## PKA-RP3FAL




Part numbers that is circled is not shown in the figure.

| No. | Part No. | Part Name | Specifications | Q'ty/set PKA- RP2.5FAL | Q'ty/set PKA- RP3FAL | Remarks (Drawing No.) | Wiring Diagram Symbol | Recommended Q'ty | Price Unit | Price Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | R01 12G 662 | LEFT SIDE PANEL | | 1 | 1 | | | | | |
| 2 | R01 E01 812 | UNDER PLATE | | 1 | 1 | | | | | |
| 3 | R01 E00 811 | NOSE | | 1 | 1 | | | | | |
| 4 | R01 A17 500 | AIR FILTER | | 4 | 4 | | | | | |
| 5 | R01 12G 691 | INTAKE GRILLE | | 2 | 2 | | | | | |
| 6 | R01 24K 658 | RECEIVER | | 1 | 1 | | RU | | | |
| 7 | T7W E05 661 | RIGHT SIDE PANEL | | 1 | 1 | | | | | |
| 8 | R01 E00 075 | WIRELESS REMOTE CONTROLLER HOLDER | | 1 | 1 | | | | | |
| 9 | R01 E01 049 | WIRELESS REMOTE CONTROLLER DOOR | | 1 | 1 | | | | | |
| 10 | T7W E06 714 | WIRELESS REMOTE CONTROLLER | | 1 | 1 | | | | | |
| 11 | R01 12G 808 | BACK PLATE | | 1 | 1 | | | | | |
| 12 | R01 E01 641 | TOP PLATE | | 1 | | | | | | |
| | R01 E00 641 | TOP PLATE | | | 1 | | | | | |
| 13 | — | BOX ASSEMBLY | | 1 | 1 | (RG00A734GE9) | | | | |
| ⑭ | R01 12G 523 | DRAIN SOKET | | 1 | 1 | | | | | |

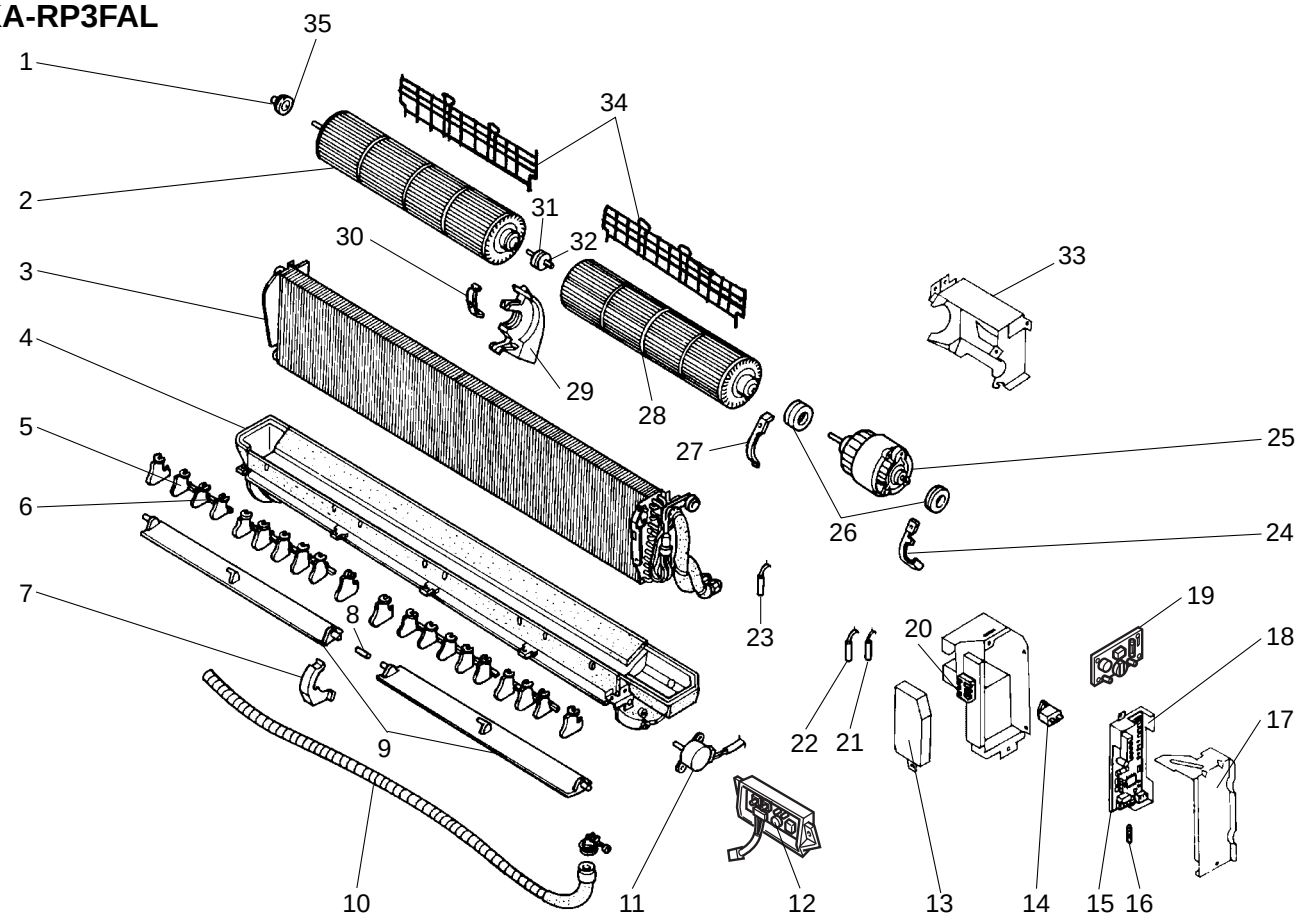
## STRUCTURAL PARTS
## PKA-RP4FAL




Part numbers that is circled is not shown in the figure.

| No. | Part No. | Part Name | Specification | Q'ty/set | Remarks (Drawing No.) | Wiring Diagram Symbol | Recommended Q'ty | Price | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | PKA-RP4FAL | | | | Unit | Amount |
| 1 | R01 12G 662 | LEFT SIDE PANEL | | 1 | | | | | |
| 2 | R01 E00 812 | UNDER PLATE | | 1 | | | | | |
| 3 | R01 E01 811 | NOSE | | 1 | | | | | |
| 4 | R01 A17 500 | AIR FILTER | | 5 | | | | | |
| 5 | R01 12G 691 | INTAKE GRILLE | | 2 | | | | | |
| 6 | R01 24K 658 | RECEIVER | | 1 | | RU | | | |
| 7 | T7W E05 661 | RIGHT SIDE PANEL | | 1 | | | | | |
| 8 | R01 E00 075 | WIRELESS REMOTE CONTROLLER HOLDER | | 1 | | | | | |
| 9 | R01 E01 049 | WIRELESS REMOTE CONTROLLER DOOR | | 1 | | | | | |
| 10 | T7W E06 714 | WIRELESS REMOTE CONTROLLER | | 1 | | | | | |
| 11 | R01 16G 808 | BACK PLATE | | 1 | | | | | |
| 12 | T7W E00 641 | TOP PLATE | | 1 | | | | | |
| 13 | — | BOX ASSEMBLY | | 1 | (RG00A734GF0) | | | | |
| 14 | R01 16G 692 | INTAKE GRILLE | | 1 | | | | | |
| ⑮ | R01 12G 523 | DRAIN SOKET | | 1 | | | | | |

## ELECTRICAL PARTS
## PKA-RP2.5FAL
## PKA-RP3FAL



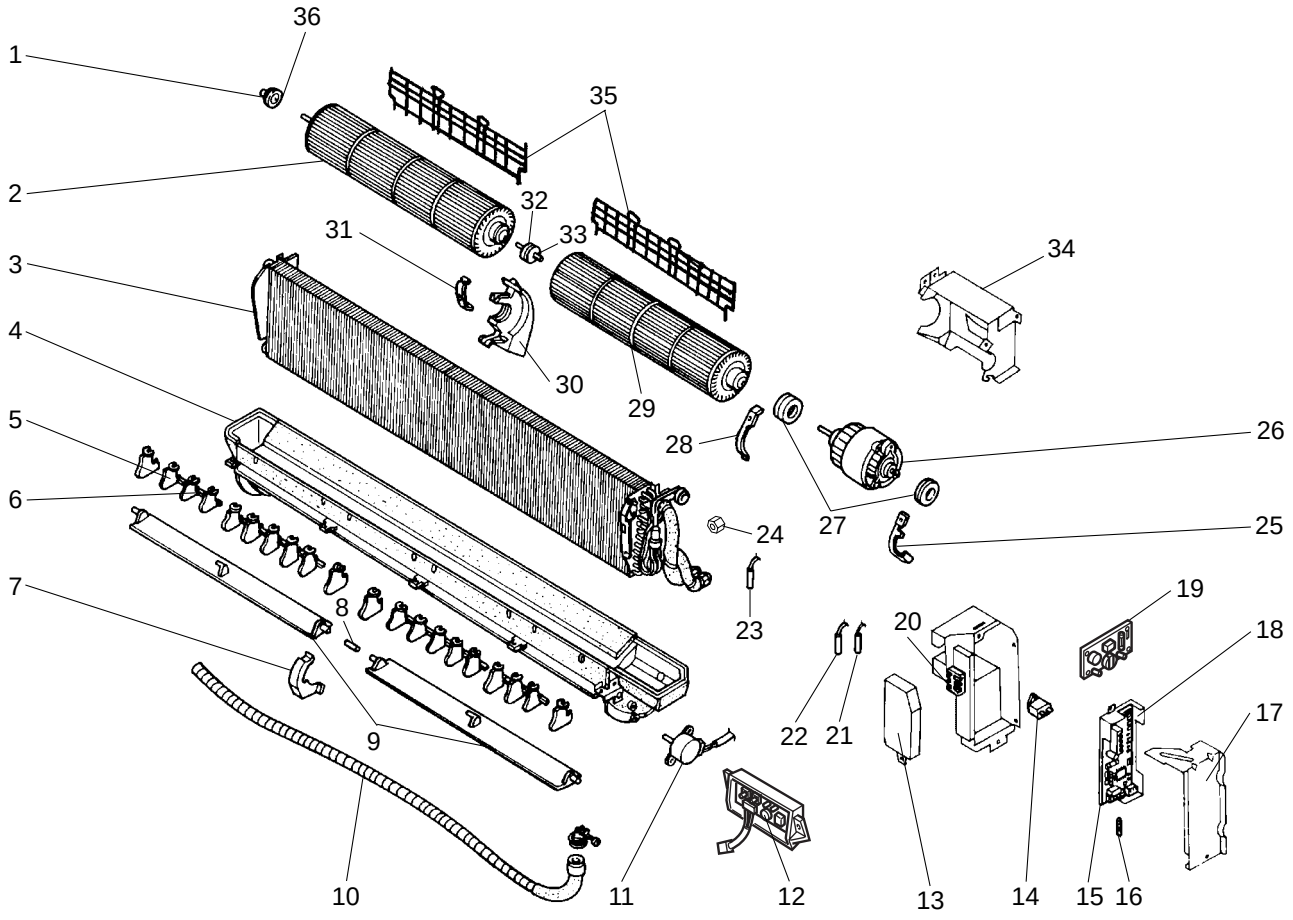

| No. | Part No. | Part Name | Specification | Q'ty/set PKA- RP2.5FAL | Q'ty/set PKA- RP3FAL | Remarks (Drawing No.) | Wiring Diagram Symbol | Recommended Q'ty | Price Unit | Price Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | R01 Z61 102 | BEARING MOUNT | | 1 | 1 | | | | | |
| 2 | R01 13G 114 | LEFT LINEFLOW FAN | | 1 | 1 | | | | | |
| 3 | R01 E61 480 | HEAT EXCHANGER | | 1 | | | | | | |
| | R01 E62 480 | HEAT EXCHANGER | | | 1 | | | | | |
| 4 | T7W E13 529 | DRAIN PAN | | 1 | 1 | | | | | |
| 5 | — | GUIDE VANE | | 16 | 16 | (BG25J821H01) | | | | |
| 6 | — | ARM | | 3 | 3 | (BG25H301H02) | | | | |
| 7 | R01 12G 621 | CENTER COVER | | 1 | 1 | | | | | |
| 8 | R01 12G 063 | JOINT SHAFT | | 1 | 1 | | | | | |
| 9 | R01 12G 002 | AUTO VANE | | 2 | 2 | | | | | |
| 10 | R01 KV5 527 | DRAIN HOSE | | 1 | 1 | | | | | |
| 11 | T7W E13 223 | VANE MOTOR | | 1 | 1 | | MV | | | |
| 12 | R01 50J 317 | WIRELESS REMOTE CONTROLLER BOARD | | 1 | 1 | | W.B | | | |
| 13 | — | TERMINAL COVER | | 1 | 1 | (BG02J608H07) | | | | |
| 14 | R01 588 255 | CAPACITOR (FAN MOTOR) | 2.0μF 440V | 1 | 1 | | C | | | |
| 15 | T7W E33 310 | INDOOR CONTROLLER BOARD | | 1 | 1 | | I.B | | | |
| 16 | T7W E00 239 | FUSE | 250V 4A | 1 | 1 | | F1 | | | |
| 17 | — | CONTROLLER COVER | | 1 | 1 | (BG02A648G02) | | | | |

Continued to the next page.

From the previous page.

| No. | Part No. | Part Name | Specification | Q'ty/set PKA- RP2.5FAL | Q'ty/set PKA- RP3FAL | Remarks (Drawing No.) | Wiring Diagram Symbol | Recommended Q'ty | Price Unit | Price Amount |
|---|---|---|---|---|---|---|---|---|---|---|
| 18 | — | CONTROLLER CASE | | 1 | | (BG25B573H06) | | | | |
| 19 | T7W E00 313 | INDOOR POWER BOARD | | 1 | | | P.B | | | |
| 20 | T7W E13 716 | TERMINAL BLOCK | 3P(S1, S2, S3) | 1 | | | TB4 | | | |
| 21 | T7W E12 202 | ROOM TEMPERATURE THERMISTOR | | 1 | | | TH1 | | | |
| 22 | R01 E34 202 | CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR | | 1 | | | TH5 | | | |
| 23 | T7W E11 202 | PIPE TEMPERATURE THERMISTOR | | 1 | | | TH2 | | | |
| 24 | — | MOTOR BAND | | 1 | | (BG02H065H01) | | | | |
| 25 | R01 12G 220 | FAN MOTOR | PN4S40-K | 1 | | | MF | | | |
| 26 | R01 12G 105 | RUBBER MOUNT | | 2 | | | | | | |
| 27 | — | MOTOR BAND | | 1 | | (BG02H178H01) | | | | |
| 28 | R01 13G 115 | RIGHT LINEFLOW FAN | | 1 | | | | | | |
| 29 | — | CENTER SUPPORT | | 1 | | (BG00R259G07) | | | | |
| 30 | — | BEARING BAND | | 1 | | (BG02L462H02) | | | | |
| 31 | R01 KV5 102 | BEARING MOUNT | | 1 | | | | | | |
| 32 | R01 12G 103 | SLEEVE BEARING | | 1 | | | | | | |
| 33 | — | MOTOR LEG | | 1 | | (BG02A534H16) | | | | |
| 34 | T7W B02 675 | FAN GUARD | | 2 | | | | | | |
| 35 | R01 005 103 | SLEEVE BEARING | | 1 | | | | | | |

## ELECTRICAL PARTS
## PKA-RP4FAL




| No. | Part No. | Part Name | Specification | Q'ty/set | Remarks (Drawing No.) | Wiring Diagram Symbol | Recommended Q'ty | Price | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | PKA-RP4FAL | | | | Unit | Amount |
| 1 | R01 Z61 102 | BEARING MOUNT | | 1 | | | | | |
| 2 | R01 17G 114 | LEFT LINEFLOW FAN | | 1 | | | | | |
| 3 | T7W E99 480 | HEAT EXCHANGER | | 1 | | | | | |
| 4 | T7W E14 529 | DRAIN PAN | | 1 | | | | | |
| 5 | — | GUIDE VANE | | 22 | (BG25J821H01) | | | | |
| 6 | — | ARM | | 4 | (BG25H301H02) | | | | |
| 7 | R01 12G 621 | CENTER COVER | | 1 | | | | | |
| 8 | R01 12G 063 | JOINT SHAFT | | 1 | | | | | |
| 9 | R01 16G 002 | AUTO VANE | | 2 | | | | | |
| 10 | R01 KV5 527 | DRAIN HOSE | | 1 | | | | | |
| 11 | T7W E13 223 | VANE MOTOR | | 1 | | MV | | | |
| 12 | R01 50J 317 | WIRELESS REMOTE CONTROLLER BOARD | | 1 | | W.B | | | |
| 13 | — | TERMINAL COVER | | 1 | (BG02J608H07) | | | | |
| 14 | R01 576 255 | CAPACITOR (FAN MOTOR) | 3.0μF 440V | 1 | | C | | | |
| 15 | T7W E33 310 | INDOOR CONTROLLER BOARD | | 1 | | I.B | | | |
| 16 | T7W E00 239 | FUSE | 250V 4A | 1 | | F1 | | | |
| 17 | — | CONTROLLER COVER | | 1 | (BG02A648G02) | | | | |

Continued to the next page.

From the previous page.

| No. | Part No. | Part Name | Specification | Q'ty/set | Remarks (Drawing No.) | Wiring Diagram Symbol | Recom-mended Q'ty | Price | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | PKA-RP4FAL | | | | Unit | Amount |
| 18 | — | CONTROLLER CASE | | 1 | (BG25B573H06) | | | | |
| 19 | T7W E00 313 | INDOOR POWER BOARD | | 1 | | P.B | | | |
| 20 | T7W E13 716 | TERMINAL BLOCK | 3P(S1, S2, S3) | 1 | | TB4 | | | |
| 21 | T7W E12 202 | ROOM TEMPERATURE THERMISTOR | | 1 | | TH1 | | | |
| 22 | R01 E34 202 | CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR | | 1 | | TH5 | | | |
| 23 | T7W E11 202 | PIPE TEMPERATURE THERMISTOR | | 1 | | TH2 | | | |
| 24 | T7W E00 457 | FLARE NUT | 5/8 | 1 | | | | | |
| 25 | — | MOTOR BAND | | 1 | (BG02H065H01) | | | | |
| 26 | T7W 571 762 | FAN MOTOR | PN4S70-K | 1 | | MF | | | |
| 27 | R01 16G 105 | RUBBER MOUNT | | 2 | | | | | |
| 28 | — | MOTOR BAND | | 1 | (BG02H178H01) | | | | |
| 29 | R01 17G 115 | RIGHT LINEFLOW FAN | | 1 | | | | | |
| 30 | — | CENTER SUPPORT | | 1 | (BG00R259G07) | | | | |
| 31 | — | BEARING BAND | | 1 | (BG02L462H02) | | | | |
| 32 | R01 KV5 102 | BEARING MOUNT | | 1 | | | | | |
| 33 | R01 12G 103 | SLEEVE BEARING | | 1 | | | | | |
| 34 | — | MOTOR LEG | | 1 | (BG02A534H17) | | | | |
| 35 | T7W B03 675 | FAN GUARD | | 2 | | | | | |
| 36 | R01 005 103 | SLEEVE BEARING | | 1 | | | | | |

# 12 OPTIONAL PARTS

## 12-1. WIRED REMOTE CONTROLLER

| | |
|---|---|
| Part No. | PAR-20MAAT-E |

## 12-2. PROGRAM TIMER

| | |
|---|---|
| Part No. | PAC-SC32PTA |

## 12-3. REMOTE SENSOR

| | |
|---|---|
| Part No. | PAC-SC41TS-E |

## 12-4. REMOTE OPERATION ADAPTER

| | |
|---|---|
| Part No. | PAC-SF40RM-E |

## 12-5. REMOTE ON/OFF ADAPTER

| | |
|---|---|
| Part No. | PAC-SE55RA-E |

## 12-6. DRAIN LIFT UP MECHANISM

| | |
|---|---|
| Part No. | PAC-SE88DM-E |

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